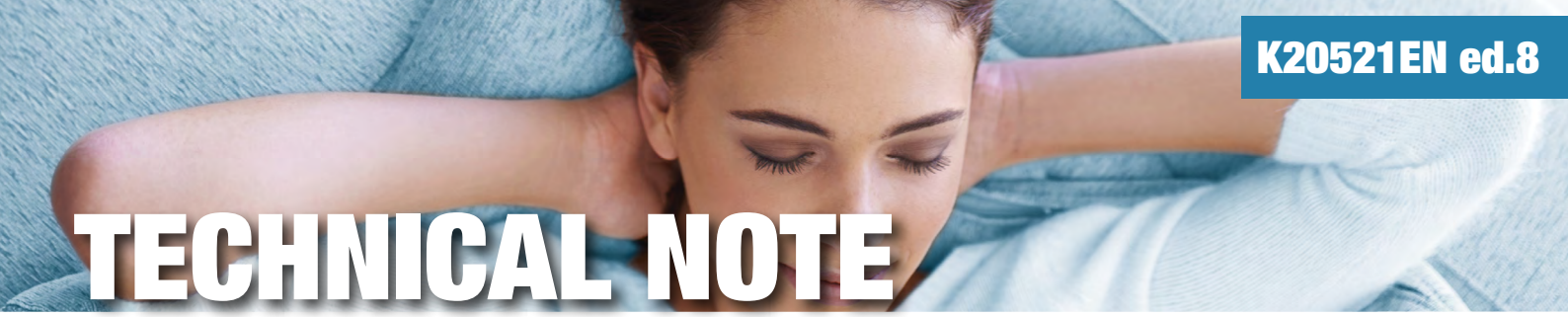
K20521EN ed.8



TECHNICAL NOTE

INVERTER

Yardy EV3
YardyDUCT2
AC Motor

Floor or ceiling ducted fan coils

Yardy EV3
Fan coils with casing and for built-in installation

YardyDUCT2
Ducted fan coils

Yardy-I EV3
Yardy-ID2
Brushless motor EC

Floor or ceiling ducted fan coils

Yardy-I EV3
Fan coils with casing and for built-in installation

Yardy-ID2
Ducted fan coils

RHOSS

RHOSS USEFUL FOR LEED

LEED certification - which stands for "Leadership in Energy and Environmental Design" - is now the most internationally established protocol for defining and assessing the environmental sustainability of buildings. It was introduced in 1998 by the U.S. Green Building Council (USGBC) and was subsequently established internationally.

It is voluntary certification based on the consent that provides investors and all stakeholders with precise references for the design, construction and management of high performance green buildings.

LEED is a flexible system that can be applied to all types of buildings, both new and existing, and covers the entire life cycle of the building.

LEED certification is aimed at promoting a constructive transformation of the industry to achieve seven main objectives [LEED Version 4 - BD+C Guide]:

- Invert the contribution to climate change
- Improve individual health and well-being
- Protect and restore water resources
- Protect, enhance and restore ecosystems and biodiversity
- Promote procurement cycles of sustainable and regenerative materials
- Create "green economy"
- Improve social equity, public health and quality of life

Since LEED is certification dedicated to buildings, products, technologies or building materials cannot be LEED certified and can only help meet the criteria of specific pre-requisites and credits of the LEED reference guide and help the building increase its score.

However, making an informed choice of certain products and technologies other than others may have a significant impact on the total score of the building; an impact that can reach 50% of the total.

For this reason, the manufacturer may have an important role in the certification process and provide concrete support to the parties involved. The role of the manufacturer will be basically consist of two activities:

- Provide precise mapping of products and/or technologies, aimed at identifying which products can be used in a LEED project and which pre-requisite criteria and credits do these products help fulfil
- Offer services and expertise that simplify and facilitate certain activities, which are specifically required by LEED standards

RHOSS units have been analysed according to the criteria described in Version 4 of the LEED certification, published in November 2013 and currently still flanked by Version 3 of 2009, with particular attention paid to the LEED Building Design and Construction guide.

With regards to the minimum energy efficiency criteria, aimed at determining whether a particular model can be used in a LEED project, the reference standard of Version 4 is ASHRAE Standard 90.1-2010, section 6.4 - 6.8 and table 6.8.1C, which replaces ASHRAE Standard 90.1-2007 used as a reference for LEED certification Version 3. Clearly, all RHOSS models that meet the minimum efficiency criteria of Version 4 also automatically meet the criteria of Version 3.

RHOSS SpA is a member of USGBC and actively supports the awareness of the principles of the sustainable design in the world.

GLOSSARY

GWP = Global Warming Potential - An index that expresses the greenhouse effect caused by gas emission into the atmosphere. Each substance has a definite potential in relation to CO2, which has been conventionally defined as a potential equal to 1.

LCGWP = Life Cycle Global Warming Potential - An index which defines the global warming potential of the entire life cycle of the product. This index depends on: GWP of the refrigerant used, useful life of the product, estimated annual loss of refrigerant and end of life, amount of unit refrigerant.

LCODP = Life Cycle Ozone Depletion Potential - The index which defines the potential destruction of the stratospheric ozone layer of refrigerant used throughout the life cycle of the product. This index is 0 for refrigerants of the HFC family (R134a and R410A).

1. General Features

1.1 Structural features Yardy, Yardy-I

Yardy - Versions with cover

Covering cabinet composed of:

- sides and front panel in galvanized and pre-painted thick steel sheet, RAL9003 colour with a matte finish, covered with a protective film of polyvinyl chloride and internally insulated with a sound-absorbing and self-extinguishing mat;
- return grille (for MVT MXT versions) made of heat-resistant ABS polymer, RAL7035 colour;
- outlet grille on the upper part of the fan coil, made of heat-resistant ABS polymer with fixed flaps, color RAL7035.

Access doors to the technical compartments and the control panels fitted with a locking screw. Galvanised steel sheet structure complete with anti-condensate insulation on the sides, back and front panels of the unit and the condensation drain pan with natural drainage complete with anti-condensate insulation. Finned coil heat exchanger with copper pipes and aluminium fins (2, 3, 4 rows), manifolds in die-cast brass, complete with a patented hydraulic distributor with low pressure drop.

Threaded connections (Ø ¾ female gas for the main coil, Ø ½ female gas for the additional coil) on the left side of the unit and reversible to the right directly on site, fitted with an air vent and discharge valve.

A centrifugal fan with a double inlet with statically and dynamically balanced aluminium or ABS fans.

Yardy-EV3

AC motor coupled directly to 6 speeds of which 3 connected in the terminal block, equipped with internal thermal protection with condenser permanently fitted.

Yardy-I

A brushless electronic synchronous motor with permanent magnets controlled by an inverter that generates sinusoidal voltage modulated in frequency and amplitude. The inverter is powered by a single-phase voltage 230Vac 50/60Hz and is controllable via an analogue signal in direct current between 0-10Vdc. The motor is equipped with internal thermal protection.

Polypropylene mesh renewable filter (filter class G1) mounted on an easily removable guide; the filter in the MVT and MXT versions with a front grill is inserted directly on the inlet grille.

Power supply voltage: 230 V–1 ph–50 Hz.

Quick coupling connectors for the direct connection to the commands and controls in the MVP, MVT versions. Terminal block for the power supply and connection to the commands and controls for the MXP, MXT versions.

Yardy - Recessed versions

Structure composed of galvanised steel sheet metal, complete with anti-condensation insulation on the sides, back and front panel of the unit and natural condensate drain pan. Finned coil heat exchanger with copper pipes and aluminium fins (2, 3, 4 rows), manifolds in die-cast brass, complete with a patented hydraulic distributor with low pressure drop. Threaded connections (Ø ¾ female gas for the main coil, Ø ½ female gas for the additional coil) on the left side of the unit and reversible to the right directly on site, fitted with an air vent and discharge valve.

Yardy-EV3

AC motor coupled directly to 6 speeds of which 3 connected in the terminal block, equipped with internal thermal protection with condenser permanently fitted.

Yardy-I

A brushless electronic synchronous motor with permanent magnets controlled by an inverter that generates sinusoidal voltage modulated in frequency and amplitude. The inverter is powered by a single-phase voltage 230Vac 50/60Hz and is controllable via an analogue signal in direct current between 0-10Vdc. The motor is equipped with internal thermal protection.

Polypropylene mesh renewable filter (filter class G1) easily removable from the front part by removing a fastening sheet in IXP version.

Power supply voltage: 230 V–1 ph–50 Hz.

Supply terminal board and connection to the commands and controls.

1.2 Structural features YardyDUCT, Yardy-ID

Yardy - Ductable recessed version

Structure composed of galvanised steel sheet metal, complete with anti-condensation insulation on the sides, back and front panel of the unit and natural condensate drain pan for vertical and horizontal installations. Finned coil heat exchanger with copper pipes and aluminium fins (2, 3, 4 rows), manifolds in die-cast brass, complete with a patented hydraulic distributor with low pressure drop. Threaded connections (Ø ¾ female gas for the main coil, Ø ½ female gas for the additional coil) on the left side of the unit and reversible to the right directly on site, fitted with an air vent and discharge valve.

A centrifugal fan with a double inlet with statically and dynamically balanced aluminium or ABS fans.

YardyDUCT2

AC motor coupled directly to 6 speeds, equipped with internal thermal protection with condenser permanently fitted.

Yardy-ID2

A brushless electronic synchronous motor with permanent magnets controlled by an inverter that generates sinusoidal voltage modulated in frequency and amplitude. The inverter is powered by a single-phase voltage 230Vac 50/60Hz and is controllable via an analogue signal in direct current between 0-10Vdc. The motor is equipped with internal thermal protection.

A renewable polypropylene synthetic filter (G1 filter class) easily removable from the front by removing a fastening plate.

Power supply voltage 230Vac ±10% 1ph 50Hz.

Supply terminal board and connection to the commands and controls.

Yardy Cover

Installation solution with aesthetic covering panel, RAL9003 colour with a matte finish, available in 3 sizes, compatible with the ranges and models shown in the table, and 2 types of covering panels:

- KPVCASE aesthetic panel for vertical installation, with return grille and 180° adjustable delivery fin.
- KPXCASE aesthetic panel for horizontal and vertical installation, with return grille and air delivery through an aluminium vent (KG and KGF) and connection fittings (KRDM and KRTM).

Yardy Cover	Width mm	920	1125	1325
Yardy-I EV3	Model	20 - 24	30 - 34	45 - 48
Yardy EV3	Model	20 - 24	25 - 30 - 34	40 - 45 - 48

1.3 Declared conditions of use

Air handling fan coil for indoor use, intended to be used for air handling (summer and winter air conditioning) domestic or similar indoor rooms.

The units are designed for installation in closed environments in conditions involving a non-marine, 'urban' atmosphere with no corrosion or dust. The unit must not be installed in areas where there are flammable gases or acid or alkaline substances.

The unit is not designed to be installed in rooms used for laundry purposes (IEC EN 60335-2-40).

1.4 Versions

Yardy, Yardy-I EV3 with cabinet

- MVP version

Vertical unit with cabinet with lower air return and upper air flow to be wall-mounted or set on the ground with feet.

- MVT version

Vertical unit with cabinet with front air inlet and upper outlet for floor installation.

- MXP version

Horizontal/vertical unit with cabinet for horizontal ceiling installation, vertical wall-mounting or floor installation with feet.

- MXT version

Horizontal/vertical unit with cabinet for horizontal ceiling installation or vertical floor installation.

Yardy EV3, Yardy-I EV3 recessed

- IVP version

Recessed vertical unit with lower air inlet and upper outlet for wall installation.

- IVF version

Recessed vertical unit with lower air inlet and front outlet for wall installation.

- IXP version

Recessed horizontal/vertical unit for false ceiling installation or recessed wall installation.

YardyDUCT2, Yardy-ID2 ductable recessed version

- CXP version

Ductable recessed unit for vertical wall or horizontal ceiling installation.

Yardy Cover only for Yardy EV3, Yardy-I EV3 version IVP, IXP

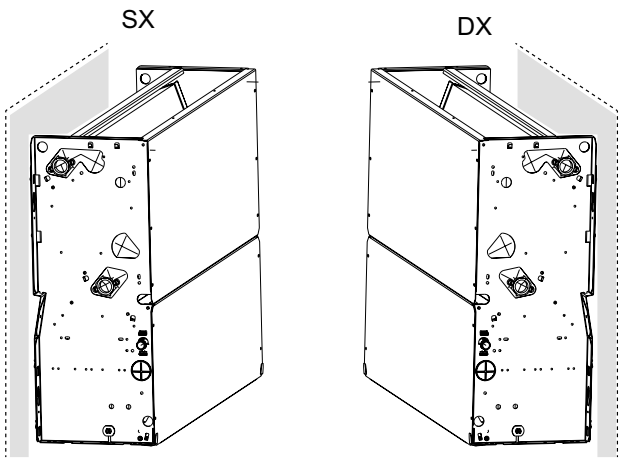
Yardy Cover consists of casing, for recessed wall or false ceiling installation, and an aesthetic panel for vertical installation or an aesthetic panel for horizontal installation, with a telescopic fitting and delivery grille, in RAL9003 white with a matte finish.

1.5 Installations

Connections side

- LEFT CONNECTIONS - Hydraulic connections on the left side of the unit that can be reversed to the right directly on site
- RIGHT CONNECTIONS - Hydraulic connections on the right side of the unit that can be reversed to the left directly on site

The unit is supplied as standard with left hydraulic connections



Type of unit

- 2T - Single main battery
- 4T - Double battery, main and additional

Power supply

- 230V/1ph/50Hz – Connection terminal block; quick connector, only for vertical versions MVP - MVT.
- 230/1/50 + Electrical box – Connection terminal block in IP31 electrical box, only for IVP, IVF, IXP, CXP versions.

Factory Fitted Accessories

Main coil valve

- E2-2V - On/off 2-way valve
- E2 - On/off 3-way valve
- E2DD - On/off 3-way valve with hoses and locks
- E2X4 – On/off 4-way valves for 2-pipe-systems

Main coil valves+additional

- E4-2V - On/off 2-way valves
- E4 - On/off 3-way valves
- E4DD - On/off 3-way valve with hoses and locks

Additional tray

- VAV - Vertical tray
- VAO - Horizontal tray

Electrical resistance

- RER - Electrical resistance with relay

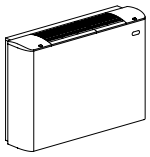
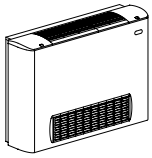
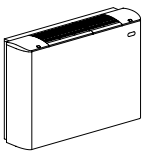
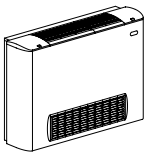
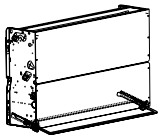
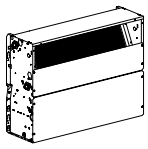
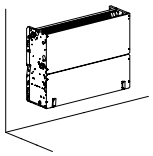
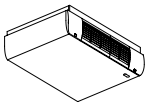
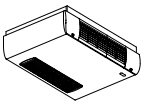
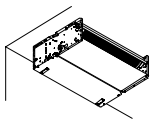
Filter

- Standard – Standard filter in polypropylene
- AIRST – Air'Suite biocide filter (only for MVP, MXP; IVP, IVF, IXP versions)

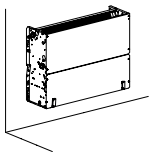
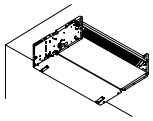
Return air flange

- Ø10cm – Air inlet hole on the wiring side (only for IXP-IVP-IVF-CXP versions)
- Ø12cm - Air inlet hole on the hydraulic connections side (only horizontal installation IXP-CXP version)

Yardy EV3 Yardy-I EV3

Version	With cover				Recessed		
	MVP	MVT	MXP	MXT	IVP	IVF	IXP
Vertical installation							
Horizontal installation							

YardyDUCT2 - Yardy-ID2

Version	Ductable
	CXP
Vertical installation	
Horizontal installation	

Yardy Cover

Aesthetic panel	KPVCASE	KPXCASE
Yardy - Yardy-I	IXP - IVP	IXP - IVP (*)
Casing	KCASE	KCASE
Fitting	-	KRDM+KRTM
Grid	-	KGMD or KGw
Vertical installation		
Horizontal installation		

(*) The IVP version can only be used for vertical installation.
The CXP version can use in case of channeling the air flow.

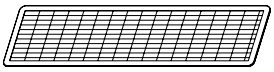
1.6 Accessories

Yardy - All versions

Air'Suite filter

- **KAIRST -** Air'Suite biocide filter (supplied separately - only for versions MVP, MXP, IVP, IVF, IXP)
- **AIRST -** Air'Suite biocide filter (factory fitted - only for versions MVP, MXP, IVP, IVF, IXP)

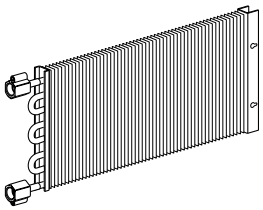
Patented antibacterial filtration system, consisting of a filtering septum with G2 efficiency (according to EN779), activated with inorganic antimicrobial nano-particles to prevent bacterial growth in the filtering material.
Fire reaction F1 according to DIN 53 438-3.



Additional coil

- **KB4** (supplied separately)
- **4T** (factory fitted)

Additional water heating coil, in copper pipes and aluminium fins, with left or right connections, reversible on site.

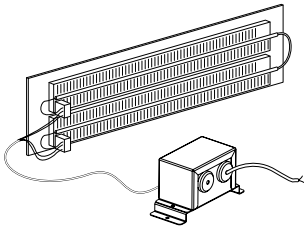


Electric heater

- **KRER** (supplied separately only for vertical versions MVP, MVT, IVP, IVF)
- **RER** (factory fitted, for all versions)

Armoured electrical resistance made of aluminium complete with safety device for overtemperature, with relay for connection to control KTCV2/TCV2, KTCVR/TCVR, KTVD/KTVDI, KCF/.

The electrical resistance (KRER) is supplied separately only for vertical versions MVP, MVT, IVP, IVF.

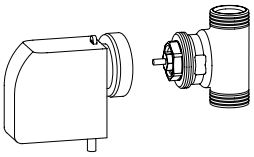


	power			
Model	**0,5 kW**	**1 kW**	**2 kW**	**3 kW**
Yardy EV3	15-20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3	20-24	30-34	45-48	60-74-80-88
YardyDUCT2	-	-	40-48	60-74-80-88
Yardy-ID2	-	-	40-48	60-74-80-88

ON/OFF electrovalves

2-way valve

Brass 2-way valves; electrothermal actuators with ON/OFF action (NC normally closed).
Power supply: 230 V
Protection rating: IP44
Total opening time: 4 minutes

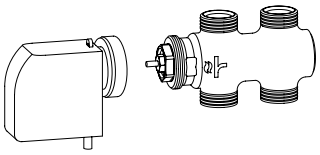


- **KE2-2V**
  2-way ON/OFF electrovalves for 2-pipe systems.
- **KE4-2V**
  2-way ON/OFF electrovalves for 2-pipe systems.

3-way valve

3-way valves with 4 brass connections, with integrated bypass; electrothermal actuators with ON/OFF action (NC normally closed). Power Supply: 230V.

Protection rating: IP44Total opening time: 4 minuti



- **KE2** (supplied separately)
- **E2** (factory fitted)

3-way ON/OFF electrovalve for 2-pipe systems.

- **KE4** (supplied separately)
- **E4** (factory fitted)

3-way ON/OFF electrovalve for 4-pipe systems.

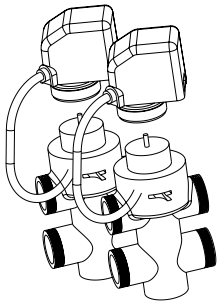
- **KE2DD** (supplied separately)
- **E2DD** (factory fitted)

ON/OFF 3-way electrovalve with flexible pipes for 2-pipe systems with valve and balancing valve for vertical and horizontal versions.

- **KE4DD** (supplied separately)
- **E4DD** (factory fitted)

4-way valve

4-way on/off double electrovalve to use a fan coil with a single main coil, with 2 connections, in a 4-pipe system.

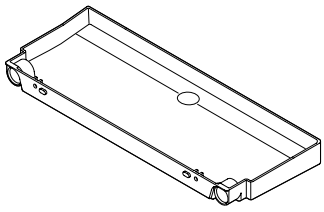


- **KE2X4** 4-way ON / OFF solenoid valves for 4-pipe system, for units with single battery (supplied separately)
- **E2X4** 4-way ON / OFF solenoid valves for 4-pipe systems, for single-battery units (factory mounted)

Auxiliary pans

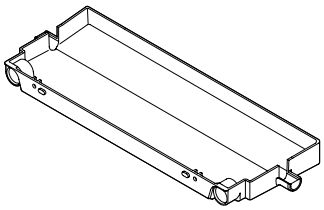
- **KVAV** (supplied separately)
- **VAV** (factory fitted)

Auxiliary condensate drain pan for vertical installation.



- **KVAO** (supplied separately)
- **VAO** (factory fitted)

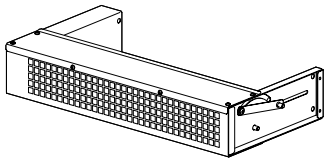
Auxiliary condensate drain pan for horizontal installation.



Damper

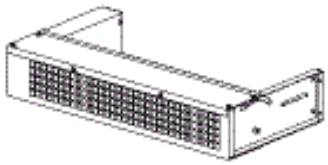
- **KSW (supplied separately)**

Manually-controlled damper for outdoor air return (up to 35%) for the MVP version to be used with the KPC support feet accessory, RAL9003 colour with a matte finish.



- **KSMW (supplied separately)**

Motorised damper for outdoor air intake (up to 35%) for the MVP version (to be used with KPC support feet accessory), with a limit switch contact to indicate the completely open state, RAL9003 colour with a matte finish.
Power supply 230V-1 ph-50 Hz.
The installer is responsible for the switch control.

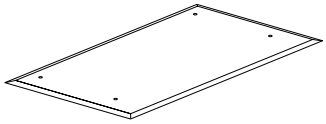


Yardy - Versions with cover MVP-MVT-MXP-MXT

Panels and grids

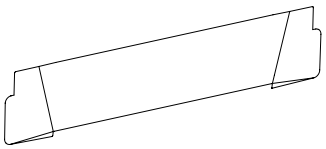
- **KSVW (supplied separately)**

Back in view in pre-painted sheet metal (for versions MVP-MXP eMVT-MXT), RAL9003 colour with a matte finish.



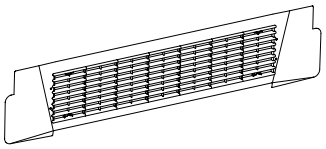
- **KPPW (supplied separately)**

Back closing panel made of pre-painted sheet metal to install the MXT version at a distance from the wall, RAL9003 colour with a matte finish.



- **KPPGW (supplied separately)**

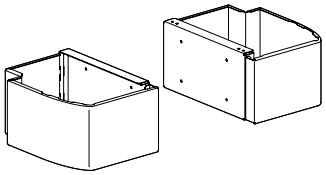
Back closing panel made of pre-painted sheet metal with a grille and filter to install the MXP version at a distance from the wall, RAL9003 colour with a matte finish.



Feet

- **KPCW (supplied separately)**

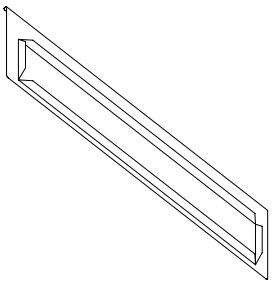
Support feet for a vertical installation, complete with a pipe cover (for MVP-MXP versions), RAL9003 colour with a matte finish.



Yardy - Built-in ductable versions IVP - IVF - IXP - CXP

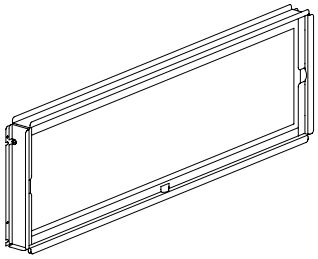
Plenum and fittings

- **KFGCM** duct frame
  Flanged frame for connection to the flow duct.
- **KFGCA** duct frame
  Flanged frame for connection to the intake duct.



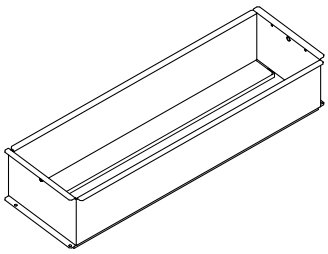
- **KFAC Filter holder frame**

Galvanised sheet metal frame with AIRSUITE filter (G2) that can be extracted in any direction.



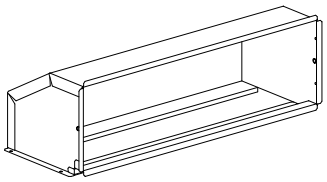
- **KRDM (supplied separately)**

Outlet straight connection made of galvanised sheet metal.



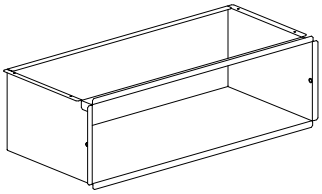
- **KR9M (supplied separately)**

Outlet 90° connection made of galvanised sheet metal.



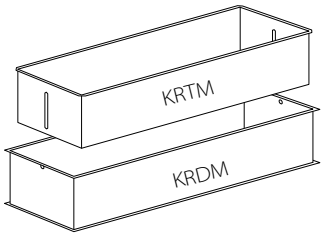
- **KR9A (supplied separately)**

Inlet 90° connection made of galvanised sheet metal.

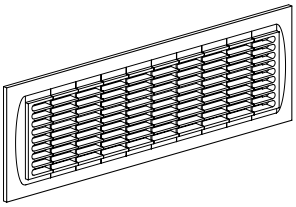


- **KRTM (supplied separately)**

Telescopic fitting (adjustable length between 21 and 86 mm) in delivery/intake made of galvanised sheet steel, for connection to fittings KRDM, KR9M and KR9A only.

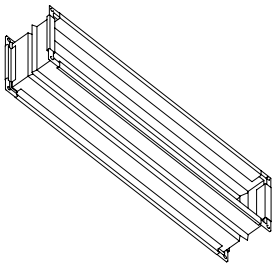


- **KGFW** (supplied separately)
  Suction grille made of heat-resistant ABS polymer, RAL7035 colour, and pre-painted sheet metal, RAL9003 colour, with a polypropylene filter for KRDM, KR9M, KR9A, KRTM fittings (for IVP - IVF - IXP versions).
- **KGW** (supplied separately)
  Delivery grille made of heat-resistant ABS polymer, RAL7035 colour, and pre-painted sheet metal, RAL9003 colour, for KRDM, KR9M, KR9A, KRTM fittings (for IVP - IVF - IXP versions).



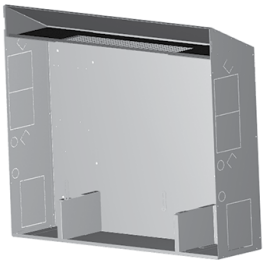
- **KAS Antivibration joint**

Antivibration connection for connection to the inlet or outlet duct (to be used with KFGCm-KFGCA).



- **KCASE -** Casing for recessed wall or false ceiling installation (supplied separately - only for IVP, IXP, CXP)

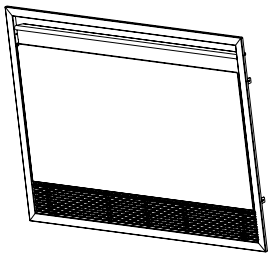
Galvanised sheet steel casing to install the fan coil in a recessed wall or false ceiling installation, equipped with pre-cut holes to pass the pipes, support feet of the unit and anti-intrusion grille.



	Width mm	920	1125	1325
Yardy-I EV3	Model	20 - 24	30 - 34	45 - 48
Yardy EV3	Model	20 - 24	25 - 30 - 34	40 - 45 - 48
Yardy-ID2	Model			40 - 48
Yardy-DUCT2	Model			40 - 48

- **KPVCASE -** COVER aesthetic panel for a wall-mounted casing, with an air delivery and return grille (supplied separately - only for IVP, IXP versions with KCASE)

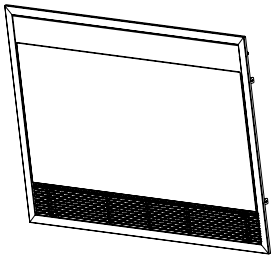
Wall-mounted aesthetic panel for casing, with a frame, intake grille and swivel delivery fin 180°, matte white RAL 9003 colour.



	Width mm	920	1125	1325
Yardy-I EV3	Model	20 - 24	30 - 34	45 - 48
Yardy EV3	Model	20 - 24	25 - 30 - 34	40 - 45 - 48

- **KPXCASE -** COVER aesthetic panel for a casing, with an air inlet grille (supplied separately - only for IVP, IXP, CXP versions with KCASE and KRDM - KRTM fittings)

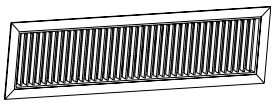
Wall or ceiling-mounted aesthetic panel for casing, with a frame and intake grille, matte white RAL 9003 colour.



	Width mm	920	1125	1325
Yardy-I EV3	Model	20 - 24	30 - 34	45 - 48
Yardy EV3	Model	20 - 24	25 - 30 - 34	40 - 45 - 48
Yardy-ID2	Model			40 - 48
Yardy-DUCT2	Model			40 - 48

- **KGMD -** Aluminium delivery nozzle (supplied separately - only for IVP, IXP versions with KRDM - KRTM fittings)

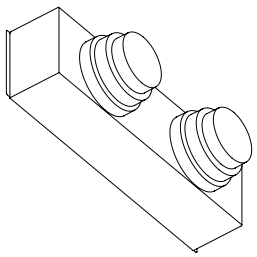
Aluminium wall-mounted delivery nozzle, with a double row of adjustable fins.



	Width mm	920	1125	1325
Yardy-I EV3	Model	20 - 24	30 - 34	45 - 48
Yardy EV3	Model	20 - 24	25 - 30 - 34	40 - 45 - 48
Yardy-ID2	Model			40 - 48
Yardy-DUCT2	Model			40 - 48

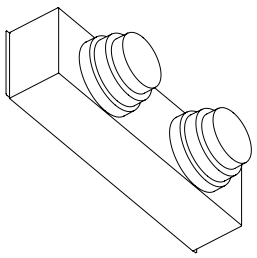
- **KPAF (supplied separately)**

Intake plenum made of galvanised sheet metal with circular nozzles made of embossed ABS polymer (Ø 150-180-200 mm).



- **KPM (supplied separately)**

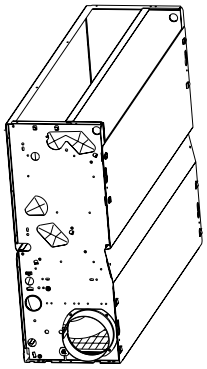
Flow plenum made of galvanised sheet metal, insulated internally, with circular nozzles made of embossed ABS polymer (Ø 150-180-200 mm).



- **Return air flange (factory fitted)**

Ø10cm – Air inlet hole on the wiring side (only for IXP-IVP-IVF-CXP versions)

Ø12cm - Air inlet hole on the hydraulic connections side (only horizontal installation IXP-CXP version)



1.7 Controls

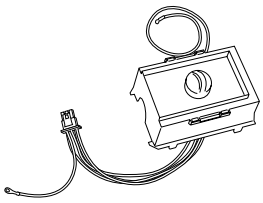
The Yardy range includes a number of commands and controls supplied separately by the units or pre-assembled at the factory

Standard controls

Yardy-EV3 version MVP-MVT

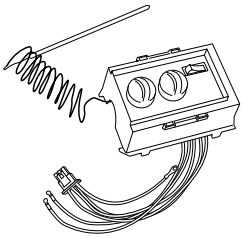
- **KC** (supplied separately)
- **C** (factory fitted)

OFF/1/2/3 speed switch (for MVP and MVT). On board installation only.



- **KTA** (supplied separately)
- **TA** (factory fitted)
- **TATM** (factory fitted)

Room thermostat complete with OFF/1/2/3 speed and SUMMER/WINTER switch (for MVP and MVT) with the possibility of connecting the minimum thermostat externally. On board installation only. The TATM version is supplied complete with the minimum thermostat.



Yardy-EV3 - YardyDUCT2

- **KCV2 (supplied separately)**

Panel with 3-speed switch complete with the summer/off/winter switch with the possibility of connecting the minimum thermostat externally.
Wall mounted.

(dimensions 145 x 82 x 40 mm)

- **KTCV2-KBTCV2** (supplied separately)
- **TCV2-TCV2TM** (factory fitted)

Control and regulation panel consisting of: off/continuous ventilation/thermostat ventilation switch; room thermostat; summer/winter switch; speed switch; auxiliary contacts (230 Vac) to control the On/Off valves in 2-pipe systems, 2-pipe systems with electric resistance (KRER) or 4-pipe systems with the possibility of connecting the minimum thermostat externally. Installed on board the machine (KBTCV2) or on the wall (KTCV2).

The TCV2TM control is supplied complete with the minimum thermostat.

(dimensions 145 x 82 x 40 mm)

- **KTCVA-KBTCVA** (supplied separately)
- **TCVA** (factory fitted)

Electronic control panel including: thermostated ventilation/off/continuous ventilation switch; 3-speed switch; room thermostat; automatic summer/winter switch; red/green heating/cooling operating LED; auxiliary contact (230 Vac) for ON/OFF 3-way valve control for 2-pipe systems. On board machine assembly (KBTCVA) or wall-mounted (KTCVA).

NOTE: the control does not work with a 2-way valve.

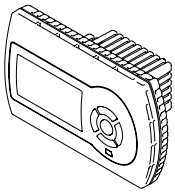
- **KTCVR-KBTCVR** (supplied separately)
- **TCVR** (factory fitted)

Electronic control panel including: on/off/electrical resistance switch; automatic summer/winter switchover; automatic speed/minimum speed switch; comfort ±5°C adjustment knob; auxiliary contacts (230 Vac) to control the ON/OFF 3-way valve in 2-pipe systems and 2-pipe systems with electrical resistance (KRER); auxiliary contacts (230 Vac) to control the ON/OFF 3 or 2-way valve in 4-pipe systems. Minimum thermostat function, destratification cycle and dirty filter signal (Yardy only). On-board assembly (KBTCVR) or wall-mounted (KTCVR).

NOTE: the control does not work with a 2-way valve (dimensions 145 x 82 x 40 mm)

- **KTVD-KTVDM (supplied separately)**

KTVD
Electronic control panel with display, semi-recessed wall mounting installation, including an ON/OFF, MODE, 3-speed+AUTO button, SET-POINT or delta SET-POINT change (OFFSET +/-3°C); auxiliary contacts for ON/OFF control valve in 2-pipe systems (2T) with electrical resistance (KRER) and 4-pipe systems (4T); summer/winter manual/automatic/contact switching; fan or minimum thermostat with probe start-up delay (KSO); continuous/thermostatic ventilation; configurable digital inputs (SCR, ECO, SIC and ALARM), weekly time band control; control of up to 4 units with INT interface. Fixing in 503-type three module recessed boxes (not supplied by Rhoss);

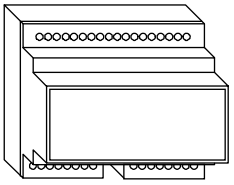


KTVDM
Complete with resident RS485 serial interface (Modbus RTU protocol)

(dimensions 128 x 80 x 55.5 mm)

- **INT (supplied separately)**

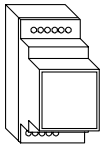
Interface board to control up to 4 fan coils, to be used in conjunction with KC, KCV2, KTCV2, KTCVA, KTCVR and KTVD (M) type of controls. On board installation.



Yardy-I EV3 - YardyID2

- **KADC (supplied separately)**

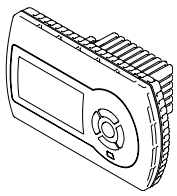
Analogue digital signal converter to manage Inverter fan coils via commands with a 3-speed relay.



(dimensions 35 x 90 x 65,5 mm)

- **KTVDI-KTVDIM (supplied separately)**

KTVDI
Electronic control panel with display, semi-recessed wall mounting installation, including an ON/OFF, MODE, 3-speed+AUTO button, SET-POINT or delta SET-POINT change (OFFSET +/-3°C); fan control (0-10 Vdc); auxiliary contacts for ON/OFF control valve in 2-pipe systems (2T) with electrical resistance (KRER) and 4-pipe systems (4T); summer/winter manual/automatic/contact switching; fan or minimum thermostat with probe start-up delay (KSO); continuous/thermostatic ventilation; configurable digital inputs (SCR, ECO, SIC and ALARM), weekly time band control; control of up to 4 units (max 50 m shielded cable). Fixing in 503-type three module recessed boxes (not supplied by Rhoss);



KTVDIM
Complete with resident RS485 serial interface (Modbus RTU protocol)

(dimensions 128 x 80 x 55.5 mm)

Yardy EV3 – YardyDuct2 - Yardy-I EV3 – YardyID2

- **KSO (supplied separately)**

Remote air temperature probe (2m) for KTCV2, KTCVA, KTCVR, KTVD (M) and minimum thermostat for KTVD (M) and KTVDI(M).

- **KTM (supplied separately)**

Minimum temperature thermostat for winter operation (for KTA - KCV2-KTCV2 - KBTCV2).

1.8 Advanced controls LIT-Touch

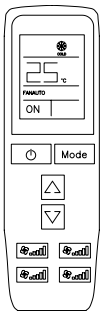
- **KPLTB -** Glossy black LIT-Touch wired control panel (supplied separately)
- **KPLTW -** Pearl white LIT-Touch wired control panel (supplied separately)

LIT-Touch wired control panel, complete with a LED display to view the room temperature or the desired set-point, with capacitive touch sensors to set the room set-point, the fan speed (AUTO, MIN, MED, MAX) and the summer/winter manual/automatic operating mode and fan (OFF/E/I/Auto/Fan) and ambient air temperature probe. Wall mounting installation to cover any recessed electrical box 503.

Only combined with control (K)CF/P.

Dimensions 120x86x17 mm

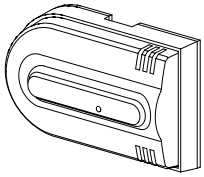
- **KTLT -** LIT-Touch remote control (supplied separately)



IR LIT-Touch remote control to control remotely with KRLT receiver, complete with a wall-mounting support. Only combined with the KRLT receiver and control (K)CF/P.

Dimensions 60 x 160 x 30 mm

- **KRLT –** LIT-Touch receiver (supplied separately)



IR LIT-Touch receiver to control remotely with the KTLT remote control, complete with an ambient air temperature probe, operating mode LED and emergency micro-key in the case of no remote control. Wall mounting installation.

Only combined with the control (K)CF/P.

Dimensions 95 x 58 x 30 mm

- **CF/B -** LIT-Touch control with on board control (factory fitted)
- **KCF/B -** LIT-Touch control with on-board control (supplied separately)

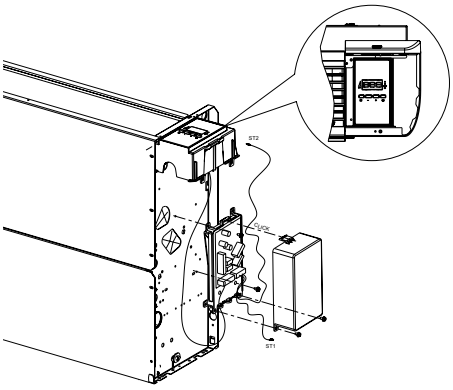
On board control complete with a LED display to view the ambient temperature or desired set-point and keys to set the ambient set-point, the speed of the fan (AUTO, MIN, MED, MAX) and the summer/winter manual/automatic operating mode and the fan (OFF/E/I/Auto/Fan).
On board electronic control complete with an air temperature probe, minimum water temperature probe and auxiliary relay contacts to control the ON/OFF valves in 2-pipe systems, and 2-pipe systems with an electrical resistance or in 4-pipe systems.
Continuous 0-10 Vdc speed adjustment for fan coils with an EC-Inverter motor or 3-speed adjustment for fan coils with an AC motor; continuous/thermostated fan setting via parameters.
Set-point adjustment or limited with delta set-point (+/-3°C can be varied) with respect to a reference value, for restricted hotel room operation.
In heating mode in 2-pipe systems. the control for the additional valve can be configured for thermostated activation of a radiator or a radiant panel, with joint or separate operation to the main coil of the fan coil.

Integrated slave master control up to 15 in total units from a single unit with control (K)CF/B.
3 digital inputs, configurable as remote ON/OFF, remote summer/winter, economy, window contact, general alarm in unit input.

The control consists of an electronic board inside a plastic container (IP21), which can contain any additional components:

- KDO2/DO2 - Additional board with 2 digital relay outputs, can be configured as ON/OFF call, summer/winter call, unit alarm. KIF485/SS - RS485 serial board with unit addressing from control panel or remote control.

On board installation - for MVP, MVT version.



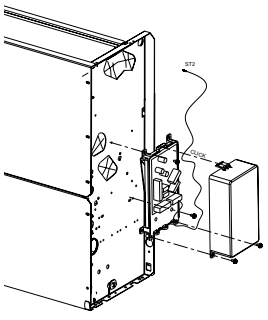
- **CF/P -** LIT-On board touch control (factory fitted)
- **KCF/P -** On board LIT-Touch control (supplied separately)

On board electronic control complete with a minimum water temperature probe and relay auxiliary contacts to control the ON/OFF valves in 2-pipe systems, in 2-pipe systems with an electrical resistance or in 4-pipe systems.
Continuous 0-10 Vdc speed adjustment for fan coils with an EC-Inverter motor or 3-speed adjustment for fan coils with an AC motor; continuous/thermostated fan speed via parameters.
Set-point adjustment or limited with delta set-point (+/-3°C can be varied) with respect to a reference value, for restricted hotel room operation.
In heating mode in 2-pipe systems, the control for the additional valve can be configured for thermostated activation of a radiator or a radiant panel, with joint or separate operation to the main coil of the fan coil.
Integrated master slave control up to 15 in totale units, from a single unit with control (KCF/B or KPLT panel or KRLT receiver. 3 digital inputs, configurable as remote ON/OFF, remote summer/winter, economy, window contact, general alarm in unit input.

The control consists of an electronic board inside a plastic container (IP21), which can contain any additional components:

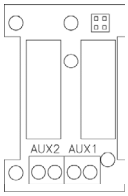
- KDO2/DO2 - Additional board with 2 digital relay outputs, can be configured as ON/OFF call, summer/winter call, unit alarm.
- KSTA1/STA1 - On board air temperature probe - KIF485/SS - RS485 serial board with unit addressing from control panel or remote control.

On board installation - for all versions, only combined with a KPLT panel or KRLT receiver.



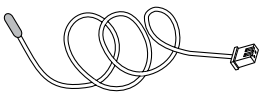
- **DO2 -** Board with 2 digital outputs
- **KDO2 -** Board with 2 digital outputs (supplied separately)

Additional board with 2 digital relay outputs, which can be configured as ON/OFF call, summer/winter call, unit alarm On board installation on control (K)CF/..



- **STA1 -** On board air temperature probe (factory fitted)
- **KSTA1 -** On board air temperature probe (supplied separately)

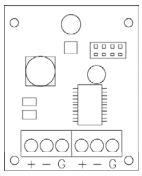
On board air temperature probe, in alternate operation with the working probe on the KPLT Panel or on the KRLT Receiver. On board installation on control (K)CF/P.



1.9 Serial interfaces for LIT-Touch evolved controls

- **SS -** RS485 serial board to control CF/.. (factory fitted)
- **KIF485 -** RS485 serial board to control KCF/.. (supplied separately)

RS485 serial interface board for SYS-TO (System Touch Manager) by Rhoss or third-party supervision (Protocols supported: Modbus® RTU).



1.10 Gateway

- **KGTW-BAC**

RS485/BACnet gateway for communication from MODBUS RTU to BACNET IP; up to 32 fan coils can be connected. The fan coils must be equipped with an SS serial interface (KIF485).

- **KGTW-LON**

RS485/FTT10-LonWorks gateway for communication from MODBUS RTU to FTT10-LonWorks; up to 32 fan coils can be connected. The fan coils must be equipped with an SS serial interface (KIF485).

Note: For more information on Commands and Controls and for the connection wiring diagrams, refer to the Technical Note Code K20002.

2. Functioning limits

Water inlet temperature: 3÷90°C.
Maximum exchanger pressure: 6 bar.
Power supply voltage: 230Vac ±10% 1ph 50Hz.

Nota Bene

The machine complies with the EN 1397 directive regarding the condensation test, however the following precautions are recommended:

Units in operation: in the summer time with chilled water, the unit must not operate continuously in environments with relative humidity (RH) >78%
Unit off: in the summer time with chilled water, in environments with an air temperature >27°C and relative humidity (RH) >78%, do not keep the unit switched off continuously for more than 4 hours, with the inlet water temperature lower than 6°C.
In the above conditions, there is a risk that superficial condensation could form, which could damage objects below it, the floor or the wall to which the unit is attached.

Said limits refer to operations with the fan in motion at minimum speed. In the event of a prolonged situation with the fan off and the passage of cold water in the battery, it is possible the formation of condensation on the outside of the unit, so it requires the insertion of the accessory valve 3-way or 2-way.

3. Technical Data

YARDY-EV3			15	20	24	25	30	34	40	45	48	55	58	60	74	80	88
Nominal cooling capacity EN 1397 (total heat) (*)	kW	VI	1,12	1,98	**2,20**	**2,50**	3,21	**3,28**	3,72	**4,26**	**4,76**	**5,38**	**5,90**	**6,53**	**6,99**	**7,82**	**8,25**
		V	**1,04**	**1,76**	2,10	2,24	**2,80**	3,05	**3,36**	3,84	4,46	4,86	5,26	6,09	6,48	7,52	7,93
		IV	0,97	1,53	**1,87**	**2,02**	2,57	**2,81**	2,84	**3,31**	**3,57**	**4,40**	**4,76**	**5,42**	6,01	7,12	**7,39**
		III	**0,89**	**1,37**	1,68	1,69	**2,46**	2,55	**2,63**	2,99	3,35	3,90	4,24	5,26	**5,68**	**6,77**	7,32
		II	0,77	1,18	**1,45**	**1,62**	2,07	**2,25**	2,47	2,81	3,11	**3,34**	**3,57**	4,40	5,05	6,31	6,83
		I	**0,64**	**1,13**	1,35	1,38	**1,78**	1,98	**2,06**	**2,49**	**2,85**	2,69	3,04	**4,22**	**4,63**	**6,24**	**6,49**
Nominal cooling capacity EN 1397 (sensitive heat) (*)	kW	VI	0,91	1,63	**1,78**	**2,00**	2,49	**2,58**	2,84	**3,44**	**3,39**	**4,36**	**4,67**	**5,02**	**5,65**	**6,33**	**6,39**
		V	**0,79**	**1,36**	1,61	1,75	**2,07**	2,37	**2,52**	3,22	3,16	3,79	4,17	4,72	5,20	6,01	6,11
		IV	0,77	1,28	**1,46**	**1,57**	1,97	**2,17**	2,09	**2,57**	**2,51**	**3,35**	**3,73**	**4,04**	4,78	5,69	**5,65**
		III	**0,71**	**1,02**	1,29	1,30	**1,84**	1,95	**1,97**	2,24	2,33	2,84	3,17	3,88	**4,33**	**5,30**	5,53
		II	0,57	0,96	**1,08**	**1,19**	1,55	**1,70**	1,77	1,99	2,14	**2,54**	**2,59**	3,24	3,69	5,00	5,11
		I	**0,47**	**0,84**	0,97	1,01	**1,28**	1,49	**1,53**	**1,78**	**1,98**	2,00	2,22	**3,09**	**3,25**	**4,68**	**4,74**
Water flow rate (*)	l/h	VI	199	347	**384**	**436**	561	**573**	651	**743**	**831**	**942**	**1037**	**1148**	**1229**	**1373**	**1451**
		V	**186**	**309**	366	390	**489**	534	**587**	669	778	850	924	1068	1134	1320	1392
		IV	172	268	**324**	**352**	448	**489**	495	**575**	**620**	**769**	**834**	**951**	1052	1246	**1294**
		III	**158**	**239**	292	293	**427**	443	**457**	520	582	682	742	923	**995**	**1184**	1281
		II	136	206	**252**	**282**	361	391	429	488	539	**582**	**623**	771	884	1104	1195
		I	**113**	**196**	234	241	**309**	343	**359**	**433**	**494**	469	529	**740**	**812**	**1092**	**1135**
Water pressure drops (*)	kPa	VI	15,0	12,9	**21,0**	**17,5**	11,0	**11,4**	19,1	**20,0**	**20,5**	**19,6**	**11,0**	**9,5**	**9,0**	**17,0**	**18,3**
		V	**13,3**	**10,5**	19,0	14,3	**9,4**	10,0	**18,3**	16,6	18,0	16,2	9,0	8,3	8,0	15,8	16,9
		IV	10,3	8,1	**15,4**	**11,1**	8,0	**8,6**	13,8	**13,0**	**13,5**	**15,8**	**7,5**	**6,9**	7,0	10,0	**10,8**
		III	**9,0**	**6,5**	12,2	8,0	**7,3**	7,3	**12,0**	10,9	12,0	12,7	6,2	6,5	**6,2**	**9,1**	9,8
		II	7,6	5,7	**10,1**	**6,9**	6,8	**5,8**	10,0	11,5	10,0	**9,3**	**5,4**	6,2	5,4	7,5	8,0
		I	**5,5**	**5,2**	8,8	5,2	**5,7**	4,7	**7,2**	**9,3**	**9,0**	6,3	5,3	**5,7**	**5,3**	**7,4**	**7,9**
Heating capacity EN 1397 (input water 45°C) (**)	kW	VI	1,38	2,26	**2,36**	**2,97**	3,59	**3,77**	4,38	**4,68**	**4,89**	**6,13**	**7,18**	**7,53**	**7,89**	**8,71**	**10,04**
		V	**1,21**	**1,97**	2,05	2,68	**3,29**	3,44	**3,79**	4,27	4,45	5,45	6,74	7,03	7,37	8,25	9,60
		IV	1,08	1,62	**1,73**	**2,30**	2,85	**2,98**	3,23	**3,47**	**3,64**	**4,89**	**5,93**	**6,20**	6,48	8,16	**9,12**
		III	**1,06**	**1,47**	1,52	1,94	**2,66**	2,79	**2,98**	3,20	3,34	4,13	5,81	6,02	**6,29**	**7,80**	9,00
		II	0,92	1,26	**1,44**	**1,85**	2,26	**2,35**	2,77	2,81	2,93	**3,57**	**5,12**	5,29	5,50	7,13	8,22
		I	**0,70**	**1,24**	1,28	1,56	**2,02**	2,19	**2,52**	**2,59**	**2,69**	2,94	4,61	**4,71**	**4,91**	**7,05**	**8,15**
Water flow rate (**)	l/h	VI	230	382	**399**	**503**	606	**638**	740	**793**	**828**	**1035**	**1210**	**1267**	**1328**	**1466**	**1693**
		V	**202**	**333**	346	456	**557**	582	**642**	724	754	921	1138	1187	1245	1390	1619
		IV	180	273	**292**	**392**	484	**506**	547	**589**	**618**	**827**	**1002**	**1046**	1092	1379	**1542**
		III	**178**	**250**	259	330	**451**	474	**506**	544	568	698	984	1016	**1062**	**1319**	1523
		II	155	213	**245**	**315**	384	**400**	471	479	499	**604**	**869**	893	928	1204	1391
		I	**117**	**210**	217	266	**342**	373	**428**	**441**	**457**	499	784	**794**	**828**	**1193**	**1380**
Water pressure drops (**)	kPa	VI	17,9	14,3	**18,3**	**20,8**	11,6	**13,1**	22,2	**20,7**	**19,4**	**21,3**	**13,9**	**10,5**	**9,9**	**18,5**	**18,9**
		V	**14,2**	**11,1**	14,0	17,4	**10,9**	11,1	**19,7**	17,5	16,2	17,2	14,0	9,3	9,0	16,6	14,3
		IV	10,4	7,8	**11,3**	**12,4**	8,4	**8,7**	15,1	**12,5**	**12,7**	**16,6**	**12,6**	**7,5**	7,2	11,5	**11,1**
		III	**8,4**	**6,5**	9,3	9,1	**7,4**	7,8	**13,1**	10,9	10,9	12,2	11,5	7,0	**6,6**	**10,7**	10,0
		II	7,7	5,5	**9,1**	**7,8**	5,7	**5,7**	10,9	10,3	8,3	**9,1**	**8,6**	7,4	5,6	8,5	8,7
		I	**4,5**	**5,4**	7,4	5,7	**4,6**	5,2	**9,2**	**8,9**	**7,5**	6,5	8,5	**6,0**	**5,2**	**8,4**	**8,7**
Heating capacity (input water 50°C) (***)	kW	VI	1,59	2,65	**2,78**	**3,47**	4,21	**4,42**	5,11	**5,51**	5,79	**7,17**	**8,34**	**8,78**	**9,22**	**10,19**	**11,68**
		V	**1,40**	**2,31**	2,43	3,14	**3,85**	4,04	**4,45**	5,03	5,28	6,39	7,81	8,22	8,63	9,67	11,17
		IV	1,25	1,91	**2,06**	**2,71**	3,36	**3,53**	3,79	**4,11**	**4,32**	**5,74**	**6,89**	**7,25**	7,61	9,55	**10,62**
		III	**1,23**	**1,74**	1,83	2,28	**3,14**	3,30	**3,50**	3,79	3,98	4,87	6,69	7,04	**7,39**	**9,13**	10,49
		II	1,07	1,49	**1,72**	**2,18**	2,67	**2,80**	3,26	3,35	3,52	**4,22**	**5,85**	6,16	6,47	8,35	9,60
		I	**0,82**	**1,46**	1,53	1,84	**2,37**	2,59	**2,93**	**3,08**	**3,23**	3,47	5,24	**5,52**	**5,80**	**8,27**	**9,49**
Water flow rate (***)	l/h	VI	199	347	**384**	**436**	561	**573**	651	**743**	**831**	**942**	**1037**	**1148**	**1229**	**1373**	**1451**
		V	**186**	**309**	366	390	**489**	534	**587**	669	778	850	924	1068	1134	1320	1392
		IV	172	268	**324**	**352**	448	**489**	495	**575**	**620**	**769**	**834**	**951**	1052	1246	**1294**
		III	**158**	**239**	292	293	**427**	443	**457**	520	582	682	742	923	**995**	**1184**	1281
		II	136	206	**252**	**282**	361	**391**	429	488	539	**582**	**623**	771	884	1104	1195
		I	**113**	**196**	234	241	**309**	343	**359**	**433**	**494**	469	529	**740**	**812**	**1092**	**1135**
Water pressure drops (***)	kPa	VI	13,8	12,0	**17,1**	**16,1**	10,1	**10,8**	17,6	**18,4**	**19,5**	**18,0**	**10,5**	**8,8**	**8,6**	**16,4**	**14,3**
		V	**12,2**	**9,7**	15,4	13,1	**8,6**	9,5	**16,8**	15,2	17,1	14,9	9,6	7,7	7,6	15,1	10,9
		IV	9,6	7,5	**13,6**	**10,2**	7,3	**8,2**	12,6	**12,0**	**12,8**	**14,6**	**9,1**	**6,3**	6,7	9,6	**8,1**
		III	**6,8**	**6,0**	11,6	7,4	**6,7**	6,9	**10,9**	10,0	11,4	11,7	6,9	5,9	**5,9**	**8,8**	7,3
		II	6,1	5,2	**9,6**	**6,4**	5,1	**5,5**	9,2	10,6	9,5	**8,5**	**4,7**	5,7	5,1	7,3	6,6
		I	**4,2**	**4,8**	8,4	4,8	**3,8**	4,5	**6,7**	**8,6**	**8,6**	5,8	4,2	**5,3**	**5,0**	**7,2**	**6,1**
Heating capacity EN 1397 (input water 70°C) (****)	kW	VI	2,74	4,52	**4,71**	**5,94**	7,17	**7,54**	8,75	**9,34**	**9,77**	**12,25**	**14,33**	**15,02**	**15,74**	**17,38**	**20,04**
		V	**2,40**	**3,93**	4,08	5,37	**6,58**	6,88	**7,59**	8,53	8,88	10,90	13,46	14,05	14,72	16,47	19,16
		IV	2,13	3,23	**3,45**	**4,61**	5,71	**5,97**	6,46	**6,93**	**7,27**	**9,78**	**11,84**	**12,38**	12,93	16,31	**18,22**
		III	**2,11**	**2,96**	3,06	3,88	**5,32**	5,61	**5,96**	6,40	6,69	8,26	11,61	12,02	**12,58**	**15,60**	17,99
		II	1,84	2,54	**2,89**	**3,71**	4,53	**4,76**	5,57	5,63	5,89	**7,17**	**10,25**	10,56	11,06	14,24	16,44
		I	**1,40**	**2,50**	2,57	3,15	**4,06**	4,44	**5,05**	**5,19**	**5,42**	5,97	9,27	**9,45**	**9,95**	**14,10**	**16,29**

YARDY-EV3			15	20	24	25	30	34	40	45	48	55	58	60	74	80	88
Water flow rate (****)	l/h	VI	232	385	**401**	**507**	611	**642**	746	**797**	**833**	**1043**	**1219**	**1278**	**1339**	**1479**	**1706**
		V	**203**	**335**	348	459	**561**	586	**648**	728	758	929	1147	1197	1254	1402	1631
		IV	181	276	**294**	**394**	487	**510**	552	**593**	**621**	**834**	**1009**	**1055**	1101	1390	**1554**
		III	**179**	**252**	261	332	**455**	479	**510**	547	572	704	991	1024	**1072**	**1330**	1534
		II	156	217	**247**	**318**	387	**407**	476	481	504	**612**	**876**	900	942	1214	1402
		I	**119**	**214**	220	269	**347**	380	**432**	**444**	**464**	510	793	**804**	**847**	**1202**	**1390**
Water pressure drops (****)	kPa	VI	18,2	14,5	**18,5**	**21,1**	11,8	**13,3**	22,5	**20,9**	**19,6**	**21,6**	**14,1**	**10,7**	**10,0**	**18,7**	**19,1**
		V	**14,4**	**11,2**	14,1	17,6	**11,0**	11,2	**20,0**	17,7	16,3	17,5	14,2	9,5	9,1	16,8	14,5
		IV	10,5	7,9	**11,4**	**12,5**	8,5	**8,8**	15,4	**12,7**	**12,9**	**16,9**	**12,8**	**7,6**	7,3	11,7	**11,3**
		III	**8,5**	**6,6**	9,5	9,2	**7,5**	7,9	**13,3**	11,0	11,0	12,4	11,6	7,1	**6,7**	**10,8**	10,1
		II	7,8	5,7	**9,3**	**8,0**	5,8	**5,9**	11,1	10,4	8,4	**9,3**	**8,7**	7,5	5,7	8,7	8,8
		I	**4,6**	**5,6**	7,5	5,9	**4,7**	5,4	**9,3**	**9,0**	**7,7**	6,7	8,7	**6,2**	**5,4**	**8,6**	**8,8**
Nominal heating capacity EN 1397 additional coil KB4 (65°C) (*****)	kW	VI	1,28	2,09	**1,78**	**2,70**	3,20	**3,05**	3,59	**3,50**	**3,34**	**5,46**	**5,13**	**5,70**	**5,45**	**6,51**	**6,27**
		V	**1,14**	**1,92**	1,69	2,60	**2,69**	2,57	**2,94**	3,38	3,21	5,13	5,00	5,56	5,30	6,46	6,20
		IV	1,11	1,80	**1,46**	**2,28**	2,60	**2,48**	2,85	**2,96**	**2,82**	**4,60**	**4,68**	**5,21**	4,96	6,35	**6,07**
		III	**0,96**	**1,51**	1,34	2,00	**2,28**	2,18	**2,81**	2,78	2,63	4,23	4,34	4,91	**4,62**	**5,90**	5,92
		II	0,90	1,40	**1,20**	**1,84**	2,15	**2,04**	2,75	2,73	2,59	**3,58**	**3,72**	4,71	3,96	5,70	5,75
		I	**0,79**	**1,29**	1,16	1,66	**1,93**	1,82	**2,62**	**2,21**	**2,15**	3,12	3,22	**4,22**	**3,53**	**5,30**	**5,28**
Water flow rate additional coil KB4 (*****)	l/h	VI	107	176	**149**	**228**	270	**257**	303	**295**	**280**	**460**	**429**	**477**	**454**	**544**	**522**
		V	**95**	**162**	143	221	**227**	216	**248**	286	270	433	420	467	444	540	517
		IV	93	153	**124**	**194**	221	**210**	241	**251**	**238**	**388**	**394**	**438**	415	534	**509**
		III	**80**	**128**	114	170	**193**	185	**239**	236	223	358	366	413	**387**	**496**	497
		II	75	119	**102**	**156**	182	**173**	234	232	220	**304**	**314**	397	332	479	483
		I	**67**	**109**	98	142	**164**	155	**223**	**187**	**183**	265	273	**355**	**295**	**446**	**444**
Pressure drops additional coil KB4 (*****)	kPa	VI	2,0	6,0	**5,0**	**10,0**	12,6	**12,6**	4,7	**3,1**	**4,8**	**14,9**	**8,8**	**9,4**	**9,4**	**27,2**	**14,5**
		V	**1,8**	**5,7**	4,5	8,7	**10,9**	11,0	**4,5**	3,0	4,4	12,1	7,6	8,3	8,3	24,5	13,5
		IV	1,7	4,8	**3,7**	**7,5**	8,1	**8,2**	3,1	**2,1**	**3,2**	**10,9**	**7,2**	**8,0**	8,0	22,4	**13,0**
		III	**1,3**	**4,0**	3,3	5,4	**7,0**	7,0	**2,8**	1,7	2,9	9,0	6,8	7,8	**7,8**	**20,1**	12,3
		II	1,1	3,3	**2,4**	**5,2**	5,9	**5,9**	2,4	1,7	2,5	**8,3**	**6,3**	9,3	7,2	18,5	11,0
		I	**0,8**	**2,7**	2,2	4,1	**4,9**	4,9	**2,3**	**1,3**	**2,3**	6,9	5,7	**6,8**	**6,8**	**16,3**	**6,0**
Nominal heating capacity EN 1397 additional coil KB4 (70°C) (****)	kW	VI	1,49	2,37	**2,01**	**3,06**	3,62	**3,45**	4,18	**3,98**	**3,79**	**6,20**	**5,81**	**6,45**	**6,15**	**7,36**	**7,08**
		V	**1,33**	**2,20**	1,93	2,95	**3,04**	2,90	**3,46**	3,84	3,66	5,83	5,66	6,29	5,98	7,31	7,01
		IV	1,29	2,09	**1,70**	**2,59**	2,95	**2,80**	3,36	**3,46**	**3,27**	**5,22**	**5,30**	**5,90**	5,61	7,20	**6,86**
		III	**1,12**	**1,75**	1,56	2,27	**2,58**	2,46	**3,33**	3,25	3,07	4,84	4,92	5,57	**5,23**	**6,69**	6,70
		II	1,04	1,63	**1,40**	**2,12**	2,43	**2,31**	3,26	3,20	3,02	**4,16**	**4,25**	5,34	4,48	6,46	6,51
		I	**0,91**	**1,50**	1,34	1,92	**2,19**	2,06	**3,07**	**2,59**	**2,53**	3,63	3,73	**4,78**	**3,99**	**6,02**	**5,98**
Water flow rate additional coil KB4 (****)	l/h	VI	125	200	**169**	**259**	306	**291**	353	**336**	**319**	**523**	**487**	**541**	**514**	**617**	**592**
		V	**111**	**186**	163	251	**257**	244	**292**	325	309	493	476	530	503	614	586
		IV	108	177	**144**	**220**	250	**237**	285	**294**	**278**	**442**	**447**	**497**	471	607	**577**
		III	**94**	**149**	132	193	**219**	209	**284**	276	261	410	416	469	**439**	**564**	564
		II	88	138	**119**	**181**	206	**196**	278	273	257	**353**	**360**	451	377	545	549
		I	**77**	**127**	114	163	**186**	175	**261**	**220**	**215**	309	317	**403**	**334**	**507**	**504**
Pressure drops additional coil KB4 (****)	kPa	VI	2,7	7,6	**6,3**	**12,6**	15,8	**15,8**	6,2	**3,9**	**6,0**	**18,8**	**11,0**	**11,8**	**11,8**	**34,2**	**18,1**
		V	**2,4**	**7,3**	5,7	10,9	**13,7**	13,7	**6,0**	3,8	5,6	15,3	9,5	10,4	10,4	30,8	16,9
		IV	2,2	6,3	**4,8**	**9,4**	10,2	**10,2**	4,2	**2,8**	**4,2**	**13,8**	**9,0**	**10,1**	10,1	28,2	**16,3**
		III	**1,7**	**5,2**	4,4	6,8	**8,8**	8,8	**3,8**	2,3	3,8	11,5	8,5	9,8	**9,8**	**25,3**	15,5
		II	1,5	4,3	**3,1**	**6,7**	7,4	**7,4**	3,3	2,3	3,3	**10,9**	**8,0**	11,7	9,0	23,4	13,8
		I	**1,1**	**3,5**	2,9	5,3	**6,1**	6,1	**3,1**	**1,7**	**3,1**	9,1	7,5	**8,6**	**8,6**	**20,6**	**7,6**
Electric heater	kW 230V-1ph-50Hz		0,5	0,5	0,5	1,0	1,0	1,0	2,0	2,0	2,0	3,0	3,0	3,0	3,0	3,0	3,0
Air flow rate	m^3/h	VI	229	339	**339**	**484**	547	**547**	676	**681**	**681**	**1077**	**1077**	**1235**	**1235**	**1480**	**1480**
		V	**209**	**288**	288	405	**483**	483	**587**	627	627	916	916	1109	1109	1388	1388
		IV	183	238	**238**	**339**	434	**434**	472	**474**	**474**	**802**	**802**	**948**	948	1220	**1220**
		III	**163**	**207**	207	281	**383**	383	**419**	431	431	662	662	**882**	**882**	1171	1171
		II	138	177	**177**	**252**	329	**321**	390	392	392	**537**	**537**	757	757	1031	1031
		I	**100**	**155**	155	217	**281**	281	**365**	**338**	**338**	420	420	**672**	**672**	**994**	**994**
Fans	n°		1	1	2	2	2	2	2	2	2	2	2	2	2	3	3
Sound power	dB(A)	VI	46	48	**48**	**48**	50	**50**	51	**52**	**52**	**58**	**58**	**62**	**62**	**66**	**66**
		V	**43**	**44**	44	42	**46**	46	**48**	50	50	56	56	60	60	65	65
		IV	40	41	**40**	**38**	43	**43**	43	**43**	**43**	**52**	54	**56**	56	62	**62**
		III	**37**	**38**	35	33	**40**	40	**40**	41	41	47	47	54	**54**	**61**	61
		II	32	34	**32**	**30**	38	**36**	38	38	38	**41**	**41**	50	50	59	59
		I	**29**	**30**	31	26	**35**	32	**35**	**35**	**35**	36	36	**48**	**48**	**57**	**57**
Sound pressure (******)	dB(A)	VI	37	39	**39**	**39**	41	**41**	42	**43**	**43**	**49**	**49**	**53**	**53**	**57**	**57**
		V	**34**	**35**	35	33	**37**	37	**39**	41	41	47	47	51	51	56	56
		IV	31	32	**31**	**29**	34	**34**	34	**34**	**34**	**43**	**45**	**47**	47	53	**53**
		III	**28**	**29**	26	24	**31**	31	**31**	32	32	38	38	45	**45**	**52**	52
		II	23	25	**23**	**21**	29	**27**	29	29	29	**32**	**32**	41	41	50	50
		I	**20**	**21**	22	17	**26**	23	**26**	**26**	**26**	27	27	**39**	**39**	**48**	**48**
Main coil rows	n°		2	3	4	2	3	4	2	3	4	2	3	3	4	3	4
Main coil water content	l		0,48	0,92	1,23	0,89	1,33	1,77	1,16	1,74	2,32	2,35	2,35	3,35	3,14	3,35	3,14
Coil water content KB4	l		0,25	0,31	0,31	0,42	0,42	0,42	0,53	0,53	0,53	0,69	0,69	0,69	0,69	0,69	0,69

YARDY-EV3			15	20	24	25	30	34	40	45	48	55	58	60	74	80	88
Absorbed power	W	VI	40	40	**41**	**45**	60	**65**	72	**70**	**76**	**115**	**145**	**161**	**172**	**184**	**197**
		V	**39**	**36**	32	34	**54**	58	**58**	61	66	95	122	130	133	173	185
		IV	31	26	**25**	**26**	36	**39**	42	**41**	**44**	**81**	**102**	**117**	125	142	**152**
		III	**28**	**23**	21	22	**31**	33	**34**	36	39	66	83	109	**117**	**133**	142
		II	23	17	**16**	**17**	28	**27**	33	31	33	**51**	**64**	95	102	124	133
		I	**17**	**15**	14	16	**25**	22	**28**	**28**	**30**	41	44	**92**	**98**	**116**	**124**
Absorbed current	A	VI	0,19	0,17	**0,18**	**0,20**	0,25	**0,27**	0,32	**0,31**	**0,33**	**0,51**	**0,55**	**0,71**	**0,76**	**0,82**	**0,88**
		V	**0,14**	**0,13**	0,14	0,14	**0,24**	0,15	**0,25**	0,26	0,28	0,40	0,43	0,46	0,56	0,72	0,77
		IV	0,11	0,10	**0,11**	**0,11**	0,16	**0,12**	0,18	**0,17**	**0,18**	**0,36**	**0,41**	**0,52**	0,49	0,60	**0,64**
		III	**0,10**	**0,08**	0,09	0,95	**0,13**	0,10	**0,17**	0,16	0,17	0,27	0,29	0,45	**0,48**	**0,59**	0,63
		II	0,08	0,06	**0,06**	**0,07**	0,11	**0,08**	0,15	0,13	0,14	**0,21**	**0,29**	0,42	0,45	0,52	0,56
		I	**0,06**	**0,05**	0,05	0,06	**0,08**	0,06	**0,12**	**0,14**	**0,15**	0,21	0,23	**0,47**	**0,45**	**0,51**	**0,55**
Electrical supply	V-ph-Hz		230-1-50														
Width MXP-MXT-MVP-MVT	mm		700	800	800	1000	1000	1000	1200	1200	1200	1500	1500	1500	1500	1500	1500
Height x Depth MXP-MXT- MVP-MVT			570 x 220														
Width IXP-IVP-IVF	mm		450	550	550	750	750	750	950	950	950	1250	1250	1250	1250	1250	1250
Height x Depth IXP-IVP-IVF	mm		545 x 212														
Height of feet	mm		100														
Weight MXP-MXT-MVP-MVT	kg		16,0	20,0	20,5	20,0	21,0	22,0	27,0	28,0	29,0	35,0	35,0	35,0	36,0	37,0	38,0
Weight IXP-IVP-IVF	kg		14,5	16,5	17,0	20,5	20,5	21,5	24,0	25,5	27,0	34,5	34,5	34,5	35,5	36,5	37,5
Standard coil connections / additional coil KB4			¾ G (F) / ½ G (F)														
Condensate drain connection (Ø)	mm		16														

(*)	In the following conditions: room temperature 27°C D.B.; 19°C W.B.; input water temperature 7°C with Δt 5°C.	**(****)**	In the following conditions: room temperature 20°C; input water temperature 70°C with Δt 10°C
(**)	In the following conditions: room temperature 20°C; input water temperature 45°C with Δt 5°C	**(*****)**	In the following conditions: room temperature 20°C; input water temperature 65°C with Δt 10°C
(***)	In the following conditions: room temperature 20°C; input water temperature 50°C, water flow rate as in cooling	**(******)**	Sound pressure level expressed in dB(A) for an environmental volume of 100 m^3 and echo time = 0.5 sec.

N.B. Data in bold refer to the Max / Med / Min wired speeds wired in a terminal block and Eurovent certified

YARDY-I-EV3				20	24	30	34	45	48	60	74	80	88
Nominal cooling capacity EN 1397 (total heat) (*)	kW	10 Vdc	**Max**	1,86	2,24	2,97	3,37	4,11	4,60	6,28	7,33	7,94	8,40
		6 Vdc	**Med**	1,44	1,68	2,33	2,75	3,05	3,49	4,60	5,24	5,87	6,32
		1 Vdc	**Min**	0,75	0,80	1,08	1,34	1,53	1,73	1,78	2,10	2,10	2,25
Nominal cooling capacity EN 1397 (sensitive heat) (*)	kW	10 Vdc	**Max**	1,46	1,75	2,34	2,68	3,29	3,63	4,89	5,89	6,44	6,56
		6 Vdc	**Med**	1,14	1,31	1,77	2,14	2,36	2,56	3,49	4,07	4,47	4,86
		1 Vdc	**Min**	0,52	0,58	0,76	0,97	1,13	1,26	1,27	1,56	1,64	1,75
Water flow rate (*)	l/h	10 Vdc	**Max**	323	388	515	584	712	797	1093	1274	1387	1467
		6 Vdc	**Med**	249	290	402	476	525	601	795	905	1016	1095
		1 Vdc	**Min**	130	139	187	232	264	299	307	362	362	388
Water pressure drops (*)	kPa	10 Vdc	**Max**	12,5	21,0	11,3	13,0	18,5	20,0	9,5	11,6	20,9	22,0
		6 Vdc	**Med**	7,7	15,3	7,1	9,0	12,1	15,0	5,4	6,4	8,4	8,4
		1 Vdc	**Min**	2,6	4,4	1,9	3,0	4,2	4,4	1,3	2,0	1,3	2,0
Heating capacity EN 1397 (input water 45°C) (**)	kW	10 Vdc	**Max**	2,10	2,18	3,27	3,41	4,47	4,65	7,13	7,41	9,67	10,07
		6 Vdc	**Med**	1,48	1,57	2,52	2,60	3,13	3,27	5,12	5,31	7,15	7,43
		1 Vdc	**Min**	0,77	0,81	1,20	1,26	1,50	1,57	1,88	1,94	2,63	2,74
Water flow rate (**)	l/h	10 Vdc	**Max**	356	371	558	582	763	792	1210	1258	1639	1706
		6 Vdc	**Med**	253	267	430	444	536	559	876	908	1220	1267
		1 Vdc	**Min**	131	139	205	215	257	268	323	333	450	470
Water pressure drops (**)	kPa	10 Vdc	**Max**	13,9	18,4	12,0	12,3	19,3	18,8	10,6	10,8	28,2	28,9
		6 Vdc	**Med**	7,3	12,5	7,4	7,6	11,5	12,5	6,0	6,1	10,7	10,4
		1 Vdc	**Min**	2,4	4,2	2,0	2,5	3,7	3,4	1,3	1,6	1,8	2,7
Heating capacity (input water 50°C) (***)	kW	10 Vdc	**Max**	2,47	2,60	3,87	4,07	5,30	5,54	8,38	8,81	11,29	11,77
		6 Vdc	**Med**	1,77	1,88	2,99	3,14	3,74	3,93	6,07	6,37	8,39	8,75
		1 Vdc	**Min**	0,92	0,97	1,42	1,52	1,81	1,90	2,25	2,36	3,07	3,22
Water flow rate (***)	l/h	10 Vdc	**Max**	323	386	515	584	712	797	1093	1272	1387	1467
		6 Vdc	**Med**	249	290	400	476	525	599	793	905	1016	1095
		1 Vdc	**Min**	129	139	187	232	264	299	307	362	362	388
Water pressure drops (***)	kPa	10 Vdc	**Max**	11,6	20,0	10,4	12,4	17,1	19,0	8,8	11,0	20,9	22,0
		6 Vdc	**Med**	7,1	14,5	6,5	8,6	11,1	14,3	5,0	6,0	7,7	8,0
		1 Vdc	**Min**	2,4	4,2	1,7	2,9	3,9	4,2	1,2	1,9	1,2	1,9
Heating capacity EN 1397 (input water 70°C) (****)	kW	10 Vdc	**Max**	4,20	4,36	6,56	6,85	8,96	9,31	14,28	14,86	19,35	20,14
		6 Vdc	**Med**	2,98	3,14	5,1	5,26	6,28	6,56	10,30	10,8	14,35	14,91
		1 Vdc	**Min**	1,56	1,64	2,44	2,56	3,06	3,19	3,87	3,98	5,4	5,60
Water flow rate (****)	l/h	10 Vdc	**Max**	359	373	562	586	767	797	1220	1269	1652	1719
		6 Vdc	**Med**	255	269	433	451	539	563	883	923	1229	1277
		1 Vdc	**Min**	134	140	209	220	262	273	332	342	461	480
Water pressure drops (****)	kPa	10 Vdc	**Max**	14,1	18,6	12,2	12,5	19,5	19,0	10,7	11,0	28,6	29,3
		6 Vdc	**Med**	7,4	12,6	7,5	7,8	11,6	12,7	6,0	6,3	10,9	10,5
		1 Vdc	**Min**	2,5	4,3	2,1	2,6	3,8	3,6	1,4	1,7	1,9	2,8
Nominal heating capacity EN 1397 additional coil KB4 (65°C) (*****)	kW	10 Vdc	**Max**	1,95	2,08	2,94	2,80	3,36	3,20	5,64	5,37	6,50	6,17
		6 Vdc	**Med**	1,66	1,60	2,34	2,22	2,84	2,70	4,67	4,45	5,39	5,14
		1 Vdc	**Min**	0,87	0,83	1,30	1,23	1,53	1,46	2,17	2,06	2,51	2,40
Water flow rate additional coil KB4 (*****)	l/h	10 Vdc	**Max**	166	176	250	238	285	272	477	454	547	518
		6 Vdc	**Med**	142	136	200	190	243	231	399	380	459	437
		1 Vdc	**Min**	75	71	111	105	131	124	186	176	215	206
Pressure drops additional coil KB4 (*****)	kPa	10 Vdc	**Max**	5,7	9,7	13,1	13,1	2,9	2,9	9,4	9,5	19,7	17,8
		6 Vdc	**Med**	4,7	8,1	7,4	7,4	2,0	2,0	6,8	6,9	13,1	11,9
		1 Vdc	**Min**	1,3	4,0	2,6	2,6	0,7	0,8	2,2	2,2	3,4	3,0
Nominal heating capacity EN1397 additional coil KB4 (70°C) (****)	kW	10 Vdc	**Max**	2,21	2,36	3,33	3,17	3,83	3,64	6,38	6,08	7,37	6,98
		6 Vdc	**Med**	1,92	1,84	2,65	2,52	3,30	3,15	5,30	5,04	6,12	5,83
		1 Vdc	**Min**	1,01	0,96	1,48	1,41	1,79	1,70	2,50	2,38	2,90	2,76
Water flow rate additional coil KB4 (****)	l/h	10 Vdc	**Max**	188	200	284	270	326	310	541	514	622	587
		6 Vdc	**Med**	164	157	226	215	283	269	453	431	522	496
		1 Vdc	**Min**	86	82	126	120	153	145	214	204	248	236
Pressure drops additional coil KB4 (****)	kPa	10 Vdc	**Max**	7,2	12,2	16,4	16,4	3,7	3,7	11,8	11,9	24,8	22,3
		6 Vdc	**Med**	6,1	10,5	9,3	9,3	2,6	2,6	8,6	8,6	16,5	14,9
		1 Vdc	**Min**	1,7	5,2	3,3	3,3	0,9	1,0	2,8	2,8	4,4	3,9
Electric heater	kW	230V-1ph-50Hz		0,5	0,5	1,0	1,0	2,0	2,0	3,0	3,0	3,0	3,0
Air flow rate	m^3/h	10 Vdc	**Max**	331	331	523	523	645	645	1235	1235	1503	1458
		6 Vdc	**Med**	230	230	400	400	450	450	780	780	965	965
		1 Vdc	**Min**	97	97	167	167	198	198	256	256	300	300
Fans	n°	-	**-**	1	1	2	2	2	2	2	2	3	3
Sound power	dB(A)	10 Vdc	**Max**	48	48	50	50	51	51	62	62	66	66
		6 Vdc	**Med**	40	40	43	43	42	42	50	50	56	56
		1 Vdc	**Min**	29	29	29	29	29	29	30	30	32	32
Sound pressure (******)	dB(A)	10 Vdc	**Max**	39	39	41	41	42	42	53	53	57	57
		6 Vdc	**Med**	31	31	34	34	33	33	41	41	47	47
		1 Vdc	**Min**	20	20	20	20	20	20	21	21	23	23
Main coil rows	n°	-	**-**	3	4	3	4	3	4	3	4	3	4
Main coil water content	l	-	**-**	0,92	1,23	1,33	1,77	1,74	2,32	3,35	3,14	3,35	3,14
Coil water content KB4	l	-	**-**	0,31	0,31	0,42	0,42	0,53	0,53	0,69	0,69	0,69	0,69

YARDY-I-EV3				20	24	30	34	45	48	60	74	80	88
Absorbed power	W	10 Vdc	**Max**	23	25	26	28	39	42	89	95	136	146
		6 Vdc	**Med**	13	14	15	16	14	15	28	30	52	56
		1 Vdc	**Min**	6	6	6	6	7	8	7	7	9	10
Absorbed current	A	10 Vdc	**Max**	0,28	0,30	0,30	0,32	0,31	0,33	0,75	0,80	1,00	1,07
		6 Vdc	**Med**	0,16	0,17	0,18	0,19	0,16	0,17	0,27	0,29	0,40	0,43
		1 Vdc	**Min**	0,06	0,06	0,06	0,09	0,08	0,09	0,06	0,09	0,08	0,09
Electrical supply	V-ph-Hz	-	**-**	230-1-50									
Width MXP-MXT-MVP-MVT	mm	-	**-**	800	800	1000	1000	1200	1200	1500	1500	1500	1500
Height x Depth MXP-MXT- MVP-MVT	mm	-	**-**	583 x 220									
Width IXP-IVP-IVF	mm	-	**-**	550	550	750	750	950	950	1250	1250	1250	1250
Height x Depth IXP-IVP-IVF	mm	-	**-**	545 x 212									
Height of feet	mm	-	**-**	100									
Weight MXP-MXT-MVP-MVT	kg	-	**-**	20	20,5	21	22	28	29	35	36	37	38
Weight IXP-IVP-IVF	kg	-	**-**	16,5	17	20,5	21,5	25,5	27	34,5	35,5	36,5	37,5
Standard coil connections / additional coil KB4		-	**-**	¾ G (F) / ½ G (F)									
Condensate drain connection (Ø)	mm	-	**-**	16									

(*)	In the following conditions: room temperature 27°C D.B.; 19°C W.B.; input water temperature 7°C with Δt 5°C.	**(****)**	In the following conditions: room temperature 20°C; input water temperature 70°C with Δt 10°C.
(**)	In the following conditions: room temperature 20°C; input water temperature 45°C with Δt 5°C	**(*****)**	In the following conditions: room temperature 20°C; input water temperature 65°C with Δt 10°C.
(***)	In the following conditions: room temperature 20°C; input water temperature 50°C, water flow rate as in cooling	**(******)**	Sound pressure level expressed in dB(A) for an environmental volume of 100 m3 and echo time = 0.5 sec.

N.B. Performance achievable with motor input signal 10/6/1 Vdc at Max / Med / Min speed

YARDY DUCT2			40	48	60	74	80	88
Nominal cooling capacity EN 1397 (total heat) (*)	kW	VI	**1,90**	**2,22**	**3,47**	**4,43**	**4,83**	**5,69**
		V	**1,76**	**2,06**	3,31	4,24	4,61	5,53
		IV	1,50	1,69	**3,18**	**4,00**	**4,38**	**5,42**
		III	**1,35**	**1,57**	3,01	3,78	4,17	5,20
		II	1,24	1,44	**2,65**	**3,41**	**3,91**	**4,94**
		I	1,07	1,25	2,41	3,14	3,86	4,80
Nominal cooling capacity EN 1397 (sensitive heat) (*)	kW	VI	**1,54**	**1,70**	**2,88**	**3,62**	**4,06**	**4,41**
		V	**1,37**	**1,56**	2,76	3,40	3,90	4,27
		IV	1,09	1,24	**2,50**	**3,20**	**3,54**	**4,19**
		III	**0,98**	**1,12**	2,35	2,92	3,40	3,96
		II	0,91	1,00	**1,98**	**2,55**	**3,23**	**3,63**
		I	0,80	0,87	1,79	2,29	3,11	3,52
Water flow rate (*)	l/h	VI	**338**	**393**	**618**	**783**	**855**	**1006**
		V	**312**	**364**	589	750	815	973
		IV	264	297	**561**	**702**	**776**	**953**
		III	**239**	**276**	532	665	735	912
		II	218	252	**469**	**601**	**688**	**865**
		I	189	220	428	553	678	839
Water pressure drops (*)	kPa	VI	**6,5**	**6,9**	**5,1**	**5,3**	**8,8**	**11,2**
		V	**5,7**	**6,0**	4,8	4,9	8,0	10,1
		IV	5,0	4,2	**4,4**	**4,4**	**5,5**	**9,0**
		III	**4,3**	**3,7**	4,3	4,2	5,0	8,1
		II	3,0	3,1	**4,2**	**3,9**	**4,4**	**7,2**
		I	2,3	3,0	3,7	3,3	4,2	6,6
Heating capacity EN 1397 (input water 45°C) (**)	kW	VI	**2,10**	**2,15**	**4,11**	**4,18**	**5,77**	**6,12**
		V	**1,90**	**1,97**	3,92	3,98	5,62	5,80
		IV	1,53	1,59	**3,69**	**3,75**	**5,51**	**5,74**
		III	**1,40**	**1,46**	3,49	3,55	5,30	5,45
		II	1,27	1,33	**3,21**	**3,26**	**4,78**	**5,10**
		I	1,10	1,15	2,94	2,98	4,61	5,06
Water flow rate (***)	l/h	VI	**350**	**357**	**685**	**695**	**966**	**1022**
		V	**316**	**327**	653	662	944	973
		IV	256	267	**620**	**629**	**926**	**964**
		III	**235**	**244**	585	594	892	918
		II	214	223	**537**	**545**	**803**	**859**
		I	185	193	493	499	776	855
Water pressure drops (**)	kPa	VI	**6,4**	**5,5**	**4,6**	**4,0**	**10,7**	**8,3**
		V	**5,4**	**4,7**	4,2	3,8	10,2	6,9
		IV	4,2	3,3	**3,7**	**3,4**	**8,9**	**6,4**
		III	**3,9**	**2,8**	3,6	3,3	8,2	6,2
		II	2,6	2,4	**3,6**	**3,1**	**6,5**	**5,2**
		I	2,0	2,3	3,2	2,6	5,9	5,1
Heating capacity (input water 50°C) (***)	kW	VI	**2,44**	**2,53**	**4,74**	**4,98**	**6,68**	**7,18**
		V	**2,21**	**2,32**	4,52	4,75	6,51	6,84
		IV	1,80	1,89	**4,29**	**4,50**	**6,37**	**6,76**
		III	**1,65**	**1,73**	4,05	4,25	6,13	6,44
		II	1,50	1,58	**3,70**	**3,89**	**5,53**	**6,04**
		I	1,30	1,37	3,39	3,56	5,35	5,99
Water flow rate (***)	l/h	VI	**338**	**393**	**618**	**783**	**855**	**1002**
		V	**312**	**364**	589	750	815	972
		IV	264	297	**561**	**702**	**776**	**949**
		III	**239**	**276**	532	665	735	912
		II	218	252	**469**	**601**	**688**	**865**
		I	189	220	428	553	678	839
Water pressure drops (***)	kPa	VI	**6,0**	**6,5**	**3,8**	**5,0**	**8,6**	**8,0**
		V	**5,3**	**5,7**	3,5	4,7	7,8	6,9
		IV	4,5	4,0	**3,1**	**4,2**	**6,5**	**6,3**
		III	**4,0**	**3,5**	3,0	4,0	5,8	6,1
		II	2,7	3,0	**2,8**	**3,7**	**4,9**	**5,3**
		I	2,1	2,9	2,5	3,1	4,6	4,9
Heating capacity EN 1397 (input water 70°C) (****)	kW	VI	**4,18**	**4,30**	**8,21**	**8,50**	**11,48**	**12,23**
		V	**3,78**	**3,94**	7,84	8,10	11,20	11,64
		IV	3,07	3,20	**7,44**	**7,67**	**10,98**	**11,52**
		III	**2,82**	**2,93**	7,04	7,24	10,56	10,98
		II	2,56	2,67	**6,48**	**6,65**	**9,52**	**10,32**
		I	2,22	2,31	5,95	6,08	9,20	10,26

			40	48	60	74	80	88
Water flow rate (****)	l/h	VI	**353**	**364**	**695**	**719**	**974**	**1035**
		V	**320**	**334**	664	686	951	988
		IV	261	272	**632**	**651**	**933**	**980**
		III	**239**	**248**	598	615	899	935
		II	218	227	**550**	**564**	**809**	**878**
		I	188	196	505	516	783	874
Water pressure drops (****)	kPa	VI	**6,5**	**5,7**	**4,7**	**4,3**	**10,9**	**8,5**
		V	**5,5**	**4,9**	4,3	4,0	10,3	7,1
		IV	4,4	3,4	**3,8**	**3,7**	**9,1**	**6,6**
		III	**4,0**	**2,9**	3,7	3,5	8,3	6,4
		II	2,7	2,5	**3,7**	**3,3**	**6,6**	**5,4**
		I	2,1	2,4	3,4	2,7	6,0	5,3
Nominal heating capacity EN 1397 additional coil KB4 (65°C) (*****)	kW	VI	**1,97**	**1,87**	**3,78**	**3,60**	**4,64**	**4,42**
		V	**1,84**	**1,75**	3,76	3,56	4,46	4,24
		IV	1,69	1,61	**3,62**	**3,42**	**4,36**	**4,15**
		III	**1,50**	**1,43**	3,52	3,33	4,26	4,05
		II	1,41	1,34	**3,42**	**3,22**	**4,16**	**3,95**
		I	1,27	1,21	3,34	3,14	4,04	3,84
Water flow rate additional coil KB4 (*****)	l/h	VI	**163**	**155**	**314**	**298**	**386**	**365**
		V	**153**	**145**	313	296	372	352
		IV	142	135	**303**	**286**	**364**	**345**
		III	**126**	**119**	295	278	357	338
		II	118	112	**287**	**269**	**348**	**329**
		I	107	102	280	263	340	322
Pressure drops additional coil KB4 (*****)	kPa	VI	**1,1**	**1,1**	**4,5**	**4,5**	**6,4**	**9,1**
		V	**1,0**	**1,0**	4,2	4,4	6,0	8,8
		IV	0,8	0,8	**4,1**	**4,2**	**5,9**	**8,6**
		III	**0,7**	**0,7**	4,0	3,9	5,8	8,2
		II	0,6	0,6	**3,8**	**3,5**	**5,4**	**7,7**
		I	0,5	0,6	3,4	3,3	5,1	7,5
Nominal heating capacity EN1397 additional coil KB4 (70°C) (****)	kW	VI	**2,29**	**2,18**	**4,27**	**4,07**	**5,24**	**4,99**
		V	**2,14**	**2,04**	4,24	4,04	5,03	4,79
		IV	1,97	1,87	**4,09**	**3,90**	**4,93**	**4,70**
		III	**1,75**	**1,66**	3,99	3,80	4,81	4,58
		II	1,63	1,55	**3,88**	**3,70**	**4,70**	**4,47**
		I	1,47	1,40	3,80	3,61	4,57	4,35
Water flow rate additional coil KB4 (****)	l/h	VI	**191**	**181**	**356**	**338**	**438**	**414**
		V	**179**	**170**	354	336	421	400
		IV	166	157	**344**	**327**	**413**	**392**
		III	**147**	**139**	335	319	404	383
		II	138	131	**327**	**310**	**395**	**374**
		I	124	118	320	304	385	365
Pressure drops additional coil KB4 (****)	kPa	VI	**1,4**	**1,4**	**5,6**	**5,6**	**8,0**	**11,4**
		V	**1,3**	**1,3**	5,3	5,5	7,5	11,1
		IV	1,0	1,0	**5,1**	**5,4**	**7,4**	**10,8**
		III	**0,9**	**0,9**	5,0	5,0	7,3	10,3
		II	0,8	0,8	**4,8**	**4,5**	**6,7**	**9,7**
		I	0,6	0,8	4,3	4,3	6,4	9,4
Electric heater	kW	230V-1ph-50Hz	2,0	2,0	3,0	3,0	3,0	3,0
Air flow rate	m^3/h	VI	**275**	**275**	**620**	**620**	**912**	**862**
		V	**250**	**250**	587	587	858	828
		IV	198	198	**539**	**539**	**820**	**800**
		III	**180**	**180**	504	504	772	759
		II	163	163	**445**	**445**	**715**	**708**
		I	140	140	402	402	685	680
Speed available head pressure	Pa	VI	**56**	**56**	**66**	**66**	**62**	**62**
		V	**49**	**49**	59	59	54	54
		IV	33	33	**51**	**51**	**49**	**50**
		III	**19**	**28**	44	44	45	45
		II	16	24	**34**	**34**	**39**	**39**
		I	9	18	28	28	35	35
Fans	n°		2	2	2	2	3	3
Flow sound power level	dB(A)	VI	**50**	**50**	**56**	**56**	**57**	**57**
		V	**48**	**48**	55	55	55	55
		IV	43	43	**54**	**54**	**54**	**54**
		III	**42**	**42**	51	51	53	53
		II	38	38	**50**	**50**	**51**	**51**
		I	37	37	48	46	50	50

			40	48	60	74	80	88
Radiated and return sound power level	dB(A)	VI	**55**	**55**	**62**	**62**	**64**	**64**
		V	**53**	**53**	60	60	62	62
		IV	47	47	**58**	**58**	**61**	**61**
		III	**45**	**45**	56	56	58	58
		II	42	42	**53**	**53**	**57**	**57**
		I	41	41	51	51	56	56
Flow sound pressure level (******)	dB(A)	VI	**41**	**41**	**47**	**47**	**48**	**48**
		V	**39**	**39**	46	46	46	46
		IV	34	34	**45**	**45**	**45**	**45**
		III	**33**	**33**	42	42	44	44
		II	29	29	**41**	**41**	**42**	**42**
		I	28	28	39	37	41	41
Radiated and return sound pressure level (******)	dB(A)	VI	**46**	**46**	**53**	**53**	**55**	**55**
		V	**44**	**44**	51	51	53	53
		IV	38	38	**49**	**49**	**52**	**52**
		III	**36**	**36**	47	47	49	49
		II	33	33	**44**	**44**	**48**	**48**
		I	32	32	42	42	47	47
Main coil rows	n°		3	4	3	4	3	4
Main coil water content	l		1,74	2,32	3,35	3,14	3,35	3,14
Coil water content KB4	l		0,53	0,53	0,69	0,69	0,69	0,69
Absorbed power	W	VI	**68**	**71**	**128**	**135**	**154**	**154**
		V	**60**	**63**	120	126	134	134
		IV	41	43	**91**	**95**	**127**	**127**
		III	**36**	**38**	88	93	109	109
		II	32	34	**84**	**89**	**105**	**105**
		I	27	28	77	80	91	91
Absorbed current	A	VI	**0,30**	**0,32**	**0,51**	**0,54**	**0,69**	**0,69**
		V	**0,27**	**0,28**	0,46	0,48	0,60	0,60
		IV	0,18	0,19	**0,36**	**0,38**	**0,51**	**0,51**
		III	**0,16**	**0,17**	0,35	0,37	0,49	0,49
		II	0,14	0,15	**0,33**	**0,35**	**0,47**	**0,47**
		I	0,12	0,13	0,33	0,35	0,41	0,41
Electrical supply	V-ph-Hz		230-1-50					
Width	mm		950	950	1250	1250	1250	1250
Height x Depth	mm		545 x 212					
Weight	kg		26	27	35	36	37	38
Standard coil connections			¾ G (F)					
Additional coil connections KB4			½ G (F)					
Condensate drain connection (Ø)	mm		16					

(*)	In the following conditions: room temperature 27°C D.B.; 19°C W.B.; input water temperature 7°C with Δt 5°C.	**(****)**	In the following conditions: room temperature 20°C; input water temperature 70°C with Δt 10°C
(**)	In the following conditions: room temperature 20°C; input water temperature 45°C with Δt 5°C	**(*****)**	In the following conditions: room temperature 20°C; input water temperature 65°C with Δt 10°C
(***)	In the following conditions: room temperature 20°C; input water temperature 50°C, water flow rate as in cooling	**(******)**	Sound pressure level expressed in dB(A) for an environmental volume of 100 m3 and echo time = 0.5 sec.

N.B. Data in bold refer to the Max / Med / Min wired speeds wired in a terminal block and Eurovent certified

YARDY-ID2		Model	40	40	48	48	60	60	74	74	80	80	88	88
		Motor input (1)	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc
Nominal cooling capacity EN 1397 (total heat) (*)	kW	Max	2,36	**3,01**	2,58	**3,28**	3,29	**4,12**	3,81	**4,58**	4,65	**5,88**	5,00	**6,26**
		Med	2,01	**2,70**	2,24	**2,95**	3,03	**3,50**	3,50	**4,42**	3,77	**5,32**	4,23	**5,70**
		Min	1,19	**1,19**	1,28	**1,28**	1,58	**1,58**	1,72	**1,72**	2,03	**2,03**	2,29	**2,29**
Nominal cooling capacity EN 1397 (sensitive heat) (*)	kW	Max	1,75	**2,20**	1,83	**2,69**	2,74	**3,33**	2,83	**3,48**	3,98	**4,71**	3,60	**5,10**
		Med	1,52	**1,99**	1,56	**2,32**	2,49	**3,19**	2,59	**3,32**	3,35	**4,08**	3,03	**4,32**
		Min	0,88	**0,88**	0,96	**0,96**	1,17	**1,17**	1,23	**1,23**	1,57	**1,57**	1,75	**1,75**
Water flow rate (*)	l/h	Max	416	529	455	575	579	724	670	803	815	1033	875	1099
		Med	352	474	391	517	530	615	613	772	659	932	738	996
		Min	206	206	221	221	273	273	297	297	350	350	395	395
Water pressure drops (*)	kPa	Max	7,7	**11,9**	8,0	**12,0**	3,0	**4,5**	4,4	**5,3**	8,0	**8,7**	7,0	**8,4**
		Med	5,7	**9,7**	6,2	**10,0**	2,6	**4,1**	4,2	**4,9**	5,5	**8,3**	6,4	**7,9**
		Min	2,7	**2,7**	2,3	**2,3**	1,0	**1,0**	3,9	**3,9**	1,2	**1,2**	5,6	**5,6**
Heating capacity EN 1397 (input water 45°C) (**)	kW	Max	2,57	**3,29**	2,60	**3,35**	3,84	**4,73**	3,83	**4,77**	5,66	**7,37**	5,74	**7,48**
		Med	2,15	**2,93**	2,17	**2,97**	3,47	**4,53**	3,46	**4,48**	4,65	**6,60**	4,67	**6,71**
		Min	1,16	**1,16**	1,18	**1,18**	1,58	**1,58**	1,60	**1,60**	2,50	**2,50**	2,51	**2,51**
Water flow rate (***)	l/h	Max	431	554	435	563	645	797	644	801	955	1244	969	1262
		Med	364	494	367	500	585	765	583	756	786	1118	791	1136
		Min	197	197	201	201	270	270	275	275	427	427	429	429
Water pressure drops (**)	kPa	Max	7,5	**11,9**	7,0	**11,0**	3,4	**5,0**	3,9	**5,0**	8,4	**11,2**	7,8	**10,3**
		Med	5,6	**9,1**	5,3	**8,6**	2,9	**4,9**	3,7	**4,2**	6,9	**9,4**	6,9	**8,6**
		Min	2,3	**2,3**	1,8	**1,8**	1,0	**1,0**	3,2	**3,2**	1,6	**1,6**	6,2	**6,2**
Heating capacity (input water 50°C) (***)	kW	Max	3,00	**3,86**	3,06	**3,94**	4,46	**5,52**	4,55	**5,63**	6,58	**8,55**	6,71	**8,72**
		Med	2,54	**3,44**	2,59	**3,51**	4,05	**5,23**	4,13	**5,33**	5,39	**7,69**	5,50	**7,84**
		Min	1,39	**1,39**	1,42	**1,42**	1,90	**1,90**	1,94	**1,94**	2,92	**2,92**	2,98	**2,98**
Water flow rate (***)	l/h	Max	416	**529**	455	**575**	579	**724**	670	**803**	815	**1033**	875	**1099**
		Med	352	**474**	391	**517**	530	**615**	613	**772**	659	**932**	738	**996**
		Min	206	**206**	221	**221**	273	**273**	297	**297**	350	**350**	395	**395**
Water pressure drops (***)	kPa	Max	7,0	**10,9**	7,6	**11,4**	2,8	**4,2**	4,2	**5,0**	6,3	**8,0**	6,5	**8,0**
		Med	5,3	**8,4**	5,9	**9,1**	2,4	**3,3**	4,0	**4,4**	5,0	**6,8**	6,1	**6,8**
		Min	2,5	**2,5**	2,2	**2,2**	1,0	**1,0**	3,7	**3,7**	1,1	**1,1**	5,3	**5,3**
Heating capacity EN 1397 (input water 70°C) (****)	kW	Max	5,10	**6,55**	5,18	**6,66**	7,71	**9,44**	7,81	**9,62**	11,29	**14,71**	11,53	**14,93**
		Med	4,31	**5,84**	4,38	**5,92**	7,01	**9,04**	7,07	**9,10**	9,32	**13,20**	9,49	**13,42**
		Min	2,35	**2,35**	2,38	**2,38**	3,24	**3,24**	3,27	**3,27**	5,10	**5,10**	5,13	**5,13**
Water flow rate (****)	l/h	Max	433	558	440	566	656	803	663	818	962	1253	982	1272
		Med	367	497	374	504	598	770	602	775	795	1127	810	1145
		Min	201	201	204	204	278	278	280	280	438	438	440	440
Water pressure drops (****)	kPa	Max	7,5	**12,0**	7,2	**11,1**	3,5	**5,1**	4,1	**5,2**	8,5	**11,3**	8,0	**10,4**
		Med	5,7	**9,1**	5,4	**8,7**	3,0	**5,0**	3,9	**4,4**	7,0	**9,6**	7,2	**8,7**
		Min	2,4	**2,4**	1,9	**1,9**	1,0	**1,0**	3,3	**3,3**	1,6	**1,6**	6,4	**6,4**
Nominal heating capacity EN 1397 additional coil KB4 (65°C) (*****)	kW	Max	2,28	**2,75**	2,18	**2,63**	3,56	**4,17**	3,39	**4,32**	4,54	**5,70**	4,33	**5,42**
		Med	2,01	**2,51**	1,91	**2,41**	3,30	**4,00**	3,15	**3,70**	3,91	**5,10**	3,71	**5,02**
		Min	1,28	**1,28**	1,22	**1,22**	1,91	**1,91**	1,91	**1,91**	2,42	**2,42**	2,30	**2,30**
Water flow rate additional coil KB4 (*****)	l/h	Max	191	231	182	220	299	350	284	363	381	478	363	454
		Med	169	211	161	201	279	337	265	311	329	430	313	423
		Min	109	109	104	104	164	164	163	163	207	207	197	197
Pressure drops additional coil KB4 (*****)	kPa	Max	1,4	**2,0**	1,4	**2,2**	4,1	**5,4**	6,1	**10,5**	6,3	**9,5**	6,3	**9,5**
		Med	1,1	**1,7**	1,1	**1,7**	3,6	**5,0**	5,4	**9,7**	4,8	**7,8**	4,8	**7,8**
		Min	0,5	**0,5**	0,8	**0,8**	1,7	**1,7**	4,9	**4,9**	2,1	**2,1**	2,1	**2,1**
Nominal heating capacity EN1397 additional coil KB4 (70°C) (****)	kW	Max	2,66	**3,19**	2,53	**3,03**	4,03	**4,71**	3,83	**4,89**	5,15	**6,46**	4,90	**6,14**
		Med	2,34	**2,92**	2,23	**2,78**	3,74	**4,51**	3,56	**4,18**	4,43	**5,78**	4,21	**5,69**
		Min	1,48	**1,48**	1,41	**1,41**	2,21	**2,21**	2,20	**2,20**	2,79	**2,79**	2,65	**2,65**
Water flow rate additional coil KB4 (****)	l/h	Max	223	268	212	255	339	396	322	411	433	543	412	516
		Med	198	246	188	234	316	381	300	353	374	488	355	481
		Min	126	126	120	120	189	189	188	188	239	239	227	227
Pressure drops additional coil KB4 (****)	kPa	Max	1,9	**2,6**	1,9	**2,8**	5,1	**6,8**	7,7	**13,1**	7,9	**11,9**	7,9	**11,9**
		Med	1,5	**2,2**	1,5	**2,2**	4,5	**6,3**	6,8	**12,1**	6,0	**9,8**	6,0	**9,8**
		Min	0,6	**0,6**	1,0	**1,0**	2,2	**2,2**	6,3	**6,3**	2,7	**2,7**	2,7	**2,7**
Electric heater	kW	230V-1ph-50Hz	2,0	2,0	2,0	2,0	3,0	3,0	3,0	3,0	3,0	3,0	3,0	3,0
Air flow speed	m^3/h	Max	350	469	350	469	573	737	573	737	767	1010	738	949
		Med	291	410	291	410	512	691	512	691	606	866	594	831
		Min	150	150	150	150	214	214	214	214	284	284	284	284
Speed available head pressure	Pa	Max	70	64	70	64	61	56	61	56	76	65	74	64
		Med	50	50	50	50	50	50	50	50	50	50	50	50
		Min	8	8	8	8	6	6	6	6	7	7	7	7
Fans	n°	-	2	2	2	2	2	2	2	2	3	3	3	3
Flow sound power level	dB(A)	Max	51	**56**	51	**56**	55	**57**	55	**57**	57	**58**	57	**58**
		Med	48	**52**	47	**52**	52	**56**	52	**56**	56	**57**	56	**57**
		Min	30	**30**	30	**30**	30	**30**	30	**30**	30	**30**	30	**30**

YARDY-ID2		Model	40	40	48	48	60	60	74	74	80	80	88	88
		Motor input (1)	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc	8/6,5/2 Vdc	10/7/2 Vdc
Radiated and return sound power level	dB(A)	**Max**	55	**60**	55	**60**	60	**62**	60	**62**	63	**64**	62	**64**
		Med	55	**56**	55	**56**	56	**60**	56	**60**	60	**62**	60	**62**
		Min	32	**32**	32	**32**	32	**32**	32	**32**	32	**32**	32	**32**
Flow sound pressure level (******)	dB(A)	**Max**	42	47	42	47	46	48	46	48	48	49	48	49
		Med	39	43	38	43	43	47	43	47	47	48	47	48
		Min	21	21	21	21	21	21	21	21	21	21	21	21
Radiated and return sound pressure level (******)	dB(A)	**Max**	46	51	46	51	51	53	51	53	54	55	53	55
		Med	46	47	46	47	47	51	47	51	51	53	51	53
		Min	23	23	23	23	23	23	23	23	23	23	23	23
Main coil rows	n°	-	3	3	4	4	3	3	4	4	3	3	4	4
Main coil water content	l	-	1,74	1,74	2,32	2,32	3,35	3,35	3,14	3,14	3,35	3,35	3,14	3,14
Coil water content KB4	l	-	0,53	0,53	0,53	0,53	0,69	0,69	0,69	0,69	0,69	0,69	0,69	0,69
Absorbed power	W	**Max**	65	**69**	67	**72**	85	**100**	89	**105**	105	**140**	105	**140**
		Med	38	**60**	38	**63**	65	**80**	68	**84**	75	**100**	75	**100**
		Min	8	**8**	8	**8**	8	**8**	8	**8**	13	**13**	13	**13**
Max. absorbed current	A	**Max**	0,44	0,53	0,46	0,56	0,83	1,04	0,87	1,09	0,75	1	0,75	1,00
		Med	0,28	0,46	0,29	0,48	0,68	0,83	0,71	0,87	0,34	0,41	0,34	0,81
		Min	0,06	0,06	0,06	0,06	0,08	0,08	0,08	0,08	0,09	0,09	0,09	0,09
Electrical supply	V-ph-Hz	-	230-1-50											
Width	mm	-	950	950	950	950	1250	1250	1250	1250	1250	1250	1250	1250
Height x Depth	mm	-	545 x 212											
Weight	kg	-	25,5	25,5	27	27	34,5	34,5	35,5	35,5	36,5	36,5	37,5	37,5
Standard coil connections			¾ G (F)											
Additional coil connections KB4			½ G (F)											
Condensate drain connection (Ø)	mm		16											

(*)	In the following conditions: room temperature 27°C D.B.; 19°C W.B.; input water temperature 7°C with Δt 5°C.	**(****)**	In the following conditions: room temperature 20°C; input water temperature 70°C with Δt 10°C
(**)	In the following conditions: room temperature 20°C; input water temperature 45°C with Δt 5°C	**(*****)**	In the following conditions: room temperature 20°C; input water temperature 65°C with Δt 10°C
(***)	In the following conditions: room temperature 20°C; input water temperature 50°C, water flow rate as in cooling	**(******)**	Sound pressure level expressed in dB(A) for an environmental volume of 100 m3 and echo time = 0.5 sec.

(1) The performance refers to the following configurations: motor input signal 2 / 6.5 / 8 Vdc at min / med / max motor input signal speed 2/7/10 Vdc at min / med / max speed.

N.B. The data in bold refer to the 10/7/2 Vdc motor input signal and Eurovent certificates

4. Perfomance

4.1 Available head pressure and capacity correction factors

Yardy-EV3 versions IVP-IVF-IXP

Yardy-EV3 15

ΔPu	Spd max (2)		Spd med (4)		Spd min (6)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	209	1,00	163	0,85	100	0,61
10	155	0,78	93	0,54	-	-
20	108	0,58	46	0,31	-	-
30	62	0,37	-	-	-	-

Yardy-EV3 20

ΔPu	Spd max (2)		Spd med (4)		Spd min (6)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	288	1,00	207	0,77	155	0,63
10	228	0,82	139	0,56	83	0,38
20	188	0,70	90	0,39	41	0,21
30	153	0,59	52	0,24	-	-
40	118	0,48	-	-	-	-

Yardy-EV3 24

ΔPu	Spd max (1)		Spd med (3)		Spd min (5)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	339	1,00	238	0,84	177	0,66
10	286	0,86	187	0,68	110	0,41
20	247	0,75	142	0,51	64	0,24
30	211	0,66	103	0,39	-	-
40	175	0,56	-	-	-	-

Yardy-EV3 25

ΔPu	Spd max (1)		Spd med (3)		Spd min (5)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	484	1,00	339	0,81	252	0,65
10	352	0,76	253	0,63	144	0,41
20	315	0,69	175	0,47	52	0,25
30	275	0,62	118	0,35	-	-
40	232	0,54	75	0,24	-	-
50	178	0,50	-	-	-	-

Yardy-EV3 30

ΔPu	Spd max (2)		Spd med (3)		Spd min (5)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	483	1,00	383	0,87	281	0,63
10	396	0,84	291	0,69	170	0,42
20	331	0,72	221	0,55	98	0,27
30	270	0,61	157	0,42	-	-
40	209	0,49	97	0,28	-	-
50	136	0,35	-	-	-	-

Yardy-EV3 34

ΔPu	Spd max (2)		Spd med (3)		Spd min (5)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	547	1,00	434	0,85	321	0,68
10	491	0,91	350	0,71	242	0,54
20	429	0,81	283	0,59	153	0,37
30	362	0,70	222	0,49	-	-
40	288	0,57	160	0,37	-	-
50	203	0,43	-	-	-	-

Yardy-EV3 40

ΔPu	Spd max (1)		Spd med (3)		Spd min (5)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	587	1,00	419	0,78	365	0,61
10	488	0,85	318	0,62	216	0,40
20	415	0,75	233	0,49	115	0,25
30	349	0,65	157	0,36	-	-
40	283	0,55	-	-	-	-
50	211	0,44	-	-	-	-

Yardy-EV3 45-48

ΔPu	Spd max (1)		Spd med (3)		Spd min (4)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	681	1,00	474	0,77	338	0,58
10	606	0,90	360	0,61	215	0,39
20	518	0,79	284	0,49	124	0,25
30	447	0,69	214	0,39	-	-
40	383	0,61	136	0,27	-	-
50	318	0,51	-	-	-	-
60	234	0,39	-	-	-	-

Yardy-EV3 55-58

ΔPu	Spd max (1)		Spd med (3)		Spd min (4)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	1077	1,00	802	0,82	537	0,62
10	1019	0,95	719	0,74	393	0,48
20	930	0,88	628	0,66	316	0,40
30	829	0,80	544	0,58	240	0,33
40	738	0,72	464	0,51	149	0,23
50	655	0,65	381	0,43	-	-
60	568	0,57	282	0,34	-	-
70	450	0,47	-	-	-	-

Yardy-EV3 60

ΔPu	Spd max (1)		Spd med (3)		Spd min (5)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	1235	1,00	948	0,83	672	0,64
10	1172	0,96	872	0,77	559	0,55
20	1089	0,89	788	0,70	466	0,47
30	995	0,83	704	0,64	382	0,41
40	893	0,75	622	0,57	302	0,34
50	789	0,67	539	0,51	223	0,27
60	684	0,59	453	0,44	142	0,18
70	576	0,51	358	0,37	-	-
80	462	0,43	243	0,27	-	-

Yardy-EV3 74

ΔPu	Spd max (1)		Spd med (3)		Spd min (5)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	1235	1,00	882	0,81	672	0,66
10	1172	0,95	767	0,72	559	0,57
20	1089	0,89	685	0,65	466	0,49
30	995	0,82	608	0,59	382	0,42
40	893	0,75	532	0,52	302	0,34
50	789	0,67	454	0,46	223	0,27
60	684	0,59	371	0,39	142	0,18
70	576	0,51	277	0,31	-	-
80	462	0,43	148	0,18	-	-

Yardy-EV3 80

ΔPu	Spd max (1)		Spd med (4)		Spd min (6)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	1480	1,00	1171	0,86	994	0,80
10	1408	0,96	1102	0,82	927	0,75
20	1328	0,91	1022	0,76	835	0,68
30	1243	0,86	935	0,71	745	0,62
40	1150	0,80	845	0,65	663	0,56
50	1049	0,74	752	0,58	581	0,50
60	938	0,67	653	0,52	492	0,43
70	816	0,59	544	0,44	386	0,36
80	679	0,48	410	0,34	258	0,26

Yardy-EV3 88

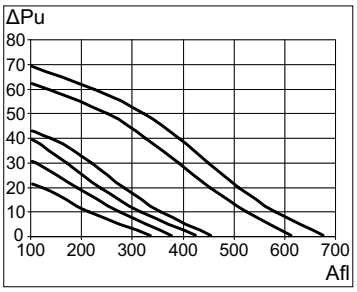
ΔPu	Spd max (1)		Spd med (4)		Spd min (6)	
	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%
0	1480	1,00	1220	0,89	994	0,78
10	1408	0,96	1159	0,85	927	0,73
20	1328	0,91	1083	0,80	835	0,67
30	1243	0,85	1001	0,75	745	0,61
40	1150	0,80	912	0,69	663	0,55
50	1049	0,73	814	0,62	581	0,49
60	938	0,66	704	0,55	492	0,43
70	816	0,58	578	0,46	386	0,35
80	679	0,50	427	0,36	258	0,25

Spd	Fan speed
ΔPu	Available head pressure
R	Capacity correction factor with reference to the nominal cooling capacity (total heat) at maximum speed

Versions Yardy DUCT2

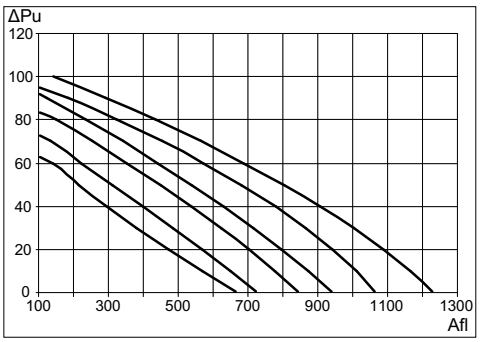
Yardy DUCT2 40-48

ΔPu	Spd VI		Spd V		Spd IV		Spd III		Spd II		Spd I	
	Afl	R	Afl	R	Afl	R	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%	m³/h	%	m³/h	%	m³/h	%
0	681	2,46	609	2,24	459	1,80	430	1,66	381	1,48	340	1,32
10	603	2,21	530	1,98	358	1,45	319	1,28	275	1,12	215	0,89
20	517	1,93	457	1,74	285	1,19	237	0,99	192	0,82	124	0,56
30	446	1,70	388	1,51	217	0,94	170	0,75	109	0,51	-	-
40	383	1,49	318	1,27	140	0,66	101	0,49	-	-	-	-
50	318	1,26	241	1,00	-	-	-	-	-	-	-	-
60	234	0,97	144	0,64	-	-	-	-	-	-	-	-



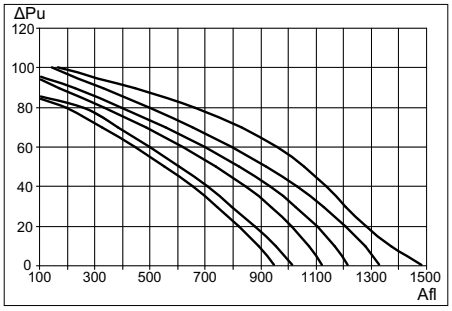
Yardy DUCT2 60-74

ΔPu	Spd VI		Spd V		Spd IV		Spd III		Spd II		Spd I	
	Afl	R	Afl	R	Afl	R	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%	m³/h	%	m³/h	%	m³/h	%
0	1235	2,03	1077	1,80	948	1,62	856	1,47	735	1,28	670	1,18
10	1172	1,94	1003	1,69	909	1,55	767	1,34	637	1,14	559	1,01
20	1089	1,81	926	1,57	815	1,41	685	1,21	553	1,00	466	0,88
30	995	1,67	846	1,45	721	1,27	608	1,09	475	0,89	382	0,75
40	893	1,52	763	1,32	632	1,13	532	0,98	398	0,78	302	0,62
50	789	1,36	675	1,19	546	1,00	454	0,86	320	0,65	223	0,48
60	684	1,20	580	1,05	457	0,87	371	0,74	235	0,50	-	-
70	576	1,04	475	0,89	359	0,72	277	0,58	-	-	-	-
80	462	0,87	352	0,70	-	-	-	-	-	-	-	-



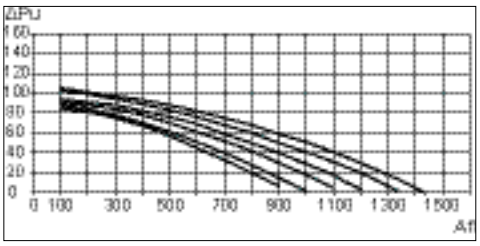
Yardy DUCT2 80

ΔPu	Spd VI		Spd V		Spd IV		Spd III		Spd II		Spd I	
	Afl	R	Afl	R	Afl	R	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%	m³/h	%	m³/h	%	m³/h	%
0	1480	1,71	1348	1,58	1229	1,44	1137	1,35	1020	1,22	965	1,19
10	1408	1,64	1273	1,50	1159	1,37	1065	1,27	950	1,15	882	1,10
20	1328	1,55	1188	1,41	1083	1,29	986	1,19	873	1,07	802	1,01
30	1243	1,46	1099	1,32	1001	1,20	904	1,10	791	0,98	722	0,92
40	1150	1,37	1005	1,22	912	1,10	817	1,00	703	0,88	640	0,83
50	1049	1,26	904	1,11	814	1,00	724	0,90	608	0,78	555	0,74
60	938	1,14	795	0,99	704	0,88	622	0,79	504	0,67	463	0,63
70	816	1,01	673	0,86	578	0,74	508	0,67	389	0,54	357	0,52
80	679	0,86	535	0,71	427	0,58	370	0,52	260	0,40	219	0,35
90	516	0,68	364	0,52	235	0,36	174	0,29	114	0,20	-	-



Yardy DUCT2 88

ΔPu	Spd VI		Spd V		Spd IV		Spd III		Spd II		Spd I	
	Afl	R	Afl	R	Afl	R	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%	m³/h	%	m³/h	%	m³/h	%
0	1458	1,70	1359	1,60	1247	1,49	1148	1,38	1054	1,29	924	1,15
10	1381	1,62	1276	1,51	1168	1,40	1069	1,30	969	1,20	861	1,08
20	1298	1,53	1187	1,41	1084	1,31	986	1,21	882	1,10	794	1,01
30	1209	1,43	1091	1,31	996	1,21	899	1,11	792	1,00	722	0,93
40	1113	1,33	988	1,20	902	1,11	808	1,01	698	0,90	644	0,84
50	1006	1,21	877	1,07	800	1,00	709	0,90	598	0,79	558	0,74
60	888	1,08	753	0,94	688	0,88	601	0,78	488	0,67	462	0,64
70	754	0,94	615	0,79	558	0,73	475	0,65	359	0,52	350	0,51
80	597	0,77	455	0,62	397	0,56	316	0,47	187	0,30	211	0,34
90	405	0,56	259	0,39	134	0,22	-	-	-	-	-	-



Spd	Fan speed
ΔPu	Available head pressure
Afl	Air flow rate
R	Capacity correction factor with reference to the nominal cooling capacity (total heat)

ΔPu	Available head pressure (Pa)
Afl	Air flow rate (m3/h)

Yardy-I versions IVP - IVF - IXP

Yardy-I 20-24

ΔPu	Spd max 10 Vdc		Spd med 6 Vdc	
	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%
0	331	1,00	230	0,77
10	266	0,83	150	0,54
20	211	0,69	64	0,27
30	160	0,55	-	-
40	110	0,40	-	-
50	58	0,23	-	-

Yardy-I 30-34

ΔPu	Spd max 10 Vdc		Spd med 6 Vdc	
	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%
0	523	1,00	400	0,81
10	432	0,85	265	0,57
20	344	0,70	143	0,34
30	256	0,54	-	-
40	167	0,38	-	-
50	71	0,18	-	-

Yardy-I 45-48

ΔPu	Spd max 10 Vdc		Spd med 6 Vdc	
	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%
0	645	1,00	450	0,75
10	542	0,86	315	0,55
20	438	0,71	182	0,34
30	334	0,55	-	-
40	234	0,41	-	-
50	141	0,28	-	-
60	55	0,13	-	-

Spd	Fan speed
ΔPu	Available head pressure
Afl	Air flow rate
R	Capacity correction factor with reference to the nominal cooling capacity (total heat) at maximum speed

Yardy-I 60-74

ΔPu	Spd max 10 Vdc		Spd med 6 Vdc	
	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%
0	1235	1,00	780	0,73
10	1064	0,88	315	0,35
20	944	0,79	179	0,22
30	811	0,69	63	0,09
40	665	0,58	-	-
50	508	0,46	-	-
60	347	0,34	-	-
70	188	0,21	-	-

Yardy-I 80

ΔPu	Spd max 10 Vdc		Spd med 6 Vdc	
	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%
0	1503	1,00	965	0,73
10	1345	0,91	826	0,64
20	1277	0,87	681	0,54
30	1211	0,83	510	0,42
40	1147	0,79	292	0,27
50	1082	0,75	-	-
60	1018	0,71	-	-
70	954	0,67	-	-
80	889	0,63	-	-

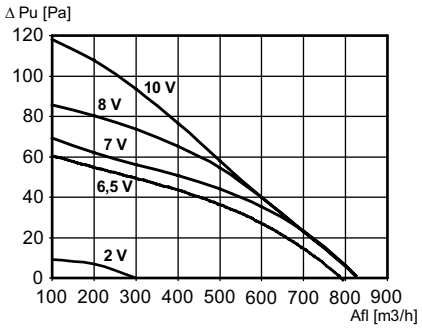
Yardy-I 88

ΔPu	Spd max 10 Vdc		Spd med 6 Vdc	
	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%
0	1458	1,00	965	0,75
10	1381	0,95	826	0,65
20	1298	0,90	681	0,55
30	1209	0,84	510	0,43
40	1113	0,78	292	0,28
50	1006	0,71	-	-
60	888	0,64	-	-
70	754	0,55	-	-
80	597	0,45	-	-

Versioni YardyID2

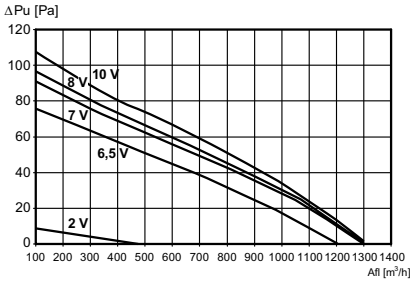
YardyID2 40 - 48

ΔPu	Spd 10 Vdc		Spd 7 Vdc		Spd 8 Vdc		Spd 6,5 Vdc	
	Afl	R	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%	m³/h	%
0	838	1,85	840	1,88	833	2,51	790	2,42
10	792	1,76	789	1,78	785	2,38	727	2,25
20	743	1,66	729	1,66	734	2,24	653	2,05
30	690	1,56	655	1,51	676	2,09	562	1,79
40	631	1,44	557	1,30	613	1,91	446	1,45
50	566	1,31	414	1,00	539	1,70	292	1,00
60	497	1,16	233	0,60	453	1,46	111	0,43
70	423	1,00	-	-	347	1,15	-	-
80	347	0,84	-	-	207	0,73	-	-
90	272	0,68	-	-	-	-	-	-
100	201	0,53	-	-	-	-	-	-



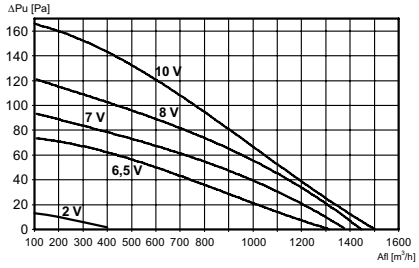
YardyID2 60 - 74

ΔPu	Spd 10 Vdc		Spd 7 Vdc		Spd 8 Vdc		Spd 6,5 Vdc	
	Afl	R	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%	m³/h	%
0	1305	1,97	1266	1,72	1302	2,25	1165	2,06
10	1230	1,87	1179	1,61	1217	2,12	1064	1,90
20	1140	1,75	1075	1,49	1116	1,96	944	1,70
30	1042	1,61	958	1,34	1003	1,79	811	1,49
40	933	1,46	828	1,18	877	1,59	665	1,25
50	814	1,30	684	1,00	739	1,36	508	1,00
60	686	1,12	533	0,81	593	1,13	347	0,74
70	554	0,93	383	0,62	446	0,89	188	0,46
80	422	0,75	241	0,43	306	0,67	-	-
90	297	0,57	113	0,23	177	0,43	-	-
100	181	0,38	-	-	-	-	-	-



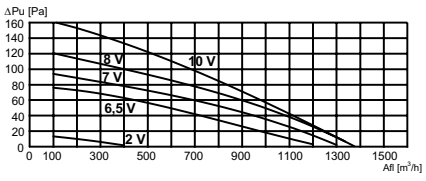
YardyID2 80

ΔPu	Spd 10 Vdc		Spd 7 Vdc		Spd 8 Vdc		Spd 6,5 Vdc	
	Afl	R	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%	m³/h	%
0	1504	1,58	1381	1,51	1447	2,17	1384	2,07
10	1420	1,50	1298	1,43	1380	2,08	1197	1,82
20	1341	1,43	1207	1,34	1309	1,99	1040	1,60
30	1265	1,36	1106	1,24	1231	1,88	896	1,40
40	1191	1,29	993	1,13	1148	1,77	754	1,21
50	1119	1,22	866	1,00	1056	1,64	607	1,00
60	1048	1,15	721	0,85	956	1,50	443	0,77
70	977	1,08	555	0,68	846	1,35	228	0,58
80	906	1,01	371	0,49	723	1,17	-	-
90	835	0,94	175	0,27	588	0,98	-	-
100	761	0,87	-	-	440	0,77	-	-



YardyID2 88

ΔPu	Spd 10 Vdc		Spd 7 Vdc		Spd 8 Vdc		Spd 6,5 Vdc	
	Afl	R	Afl	R	Afl	R	Afl	R
Pa	m³/h	%	m³/h	%	m³/h	%	m³/h	%
0	1380	1,55	1317	1,51	1379	2,08	1243	1,92
10	1315	1,48	1238	1,43	1313	1,99	1105	1,73
20	1250	1,42	1152	1,34	1243	1,90	976	1,55
30	1184	1,35	1057	1,24	1167	1,79	851	1,37
40	1117	1,28	951	1,13	1086	1,68	725	1,19
50	1049	1,21	832	1,00	996	1,55	593	1,00
60	979	1,13	696	0,86	898	1,41	447	0,80
70	909	1,06	541	0,69	790	1,26	267	0,52
80	836	0,99	366	0,51	671	1,10	-	-
90	761	0,91	177	0,28	541	0,91	-	-
100	684	0,83	-	-	401	0,72	-	-



Spd	Fan speed
ΔPu	Available head pressure
Afl	Air flow rate
R	Capacity correction factor with reference to the nominal cooling capacity (total heat)

ΔPu	Available head pressure (Pa)
Afl	Air flow rate (m3/h)

4.2 Plenum and fittings pressure drops

Yardy EV3 IVP - IVF - IXP

Spd	ΔPw	KGF accessory (inlet grille with filter)										KG accessory (outlet grille)									
		Model										Model									
		15	20	24	25	30-34	40	45-48	55	65	80	15	20	24	25	30-34	40	45-48	55	65	80
min	Pa	2,6	3,9	5,1	5,1	8,7	5,8	7,1	11,4	15,0	25,8	1,9	2,9	3,7	3,7	6,3	3,9	4,7	8,4	11,0	19,0
med	Pa	7,0	7,0	9,3	9,2	15,1	8,5	8,5	16,8	23,5	35,8	5,1	5,1	6,7	6,7	11,0	5,7	5,7	12,4	17,3	26,4
max	Pa	11,6	13,6	18,8	18,7	23,9	17,4	17,6	30,3	39,8	57,2	8,4	9,9	13,7	13,7	17,5	11,7	11,8	22,3	29,4	42,2

ΔPw	Pressure drops
Spd	Fan speed

Spd	ΔPw	Accessory KR9A (90° intake fitting)										Accessory KR9m (90° flow fitting)									
		Model										Model									
		15	20	24	25	30-34	40	45-48	55	65	80	15	20	24	25	30-34	40	45-48	55	65	80
min	Pa	0,2	0,3	0,4	0,4	0,6	0,5	0,7	0,9	1,1	2,0	0,2	0,3	0,3	0,4	0,6	0,5	0,6	0,8	1,1	1,9
med	Pa	0,5	0,5	0,6	0,7	1,1	0,8	0,8	1,3	1,8	2,7	0,4	0,5	0,6	0,6	1,0	0,8	0,8	1,2	1,7	2,6
max	Pa	0,8	0,9	1,3	1,4	1,7	1,6	1,6	2,3	3,0	4,4	0,7	0,9	1,2	1,3	1,7	1,5	1,6	2,2	2,9	4,2

ΔPw	Pressure drops
Spd	Fan speed

For accessories KPM/KPAF, KRTM/KRDM the pressure drops are negligible.

YardyDUCT2

Spd	ΔPw	Accessory KFAC (frame with G2 filter)		
		Model		
		40-48	60-74	80-88
I	Pa	0,2	1,1	3,2
II	Pa	0,3	1,3	3,5
III	Pa	0,3	1,7	4,0
IV	Pa	0,4	2,0	4,6
V	Pa	0,6	2,3	5,0
VI	Pa	0,8	2,6	5,7

ΔPw	Pressure drops (additional to the nominal conditions)
Spd	Fan speed
	The increase in head pressure with no G1 filter is negligible

Spd	ΔPw	KGF accessory (inlet grille with filter)			KG accessory (outlet grille)		
		Model			Model		
		40-48	60-74	80-88	40-48	60-74	80-88
I	Pa	0,8	4,7	13,6	0,6	3,1	9,0
II	Pa	1,1	5,8	14,8	0,8	3,8	9,8
III	Pa	1,3	7,4	17,3	1,0	4,9	11,4
IV	Pa	1,6	8,4	19,5	1,2	5,6	12,9
V	Pa	2,5	10,0	21,4	1,9	6,6	14,1
VI	Pa	3,0	11,2	24,1	2,3	7,4	15,9

ΔPw	Pressure drops (additional to the nominal conditions)
Spd	Fan speed
	The pressure drops are negligible for the KR9A/KR9M accessories

Yardy-I IVP - IVF - IXP

Spd	ΔPu	KFAC accessory (frame with G2 filter)				
		Model				
		20-24	30-34	45-48	60-74	80-88
min (1)	Pa	0,2	0,5	0,4	0,4	0,6
med (6)	Pa	1,2	2,1	1,7	2,5	3,2
max (10)	Pa	2,0	2,9	2,8	3,8	3,8

ΔPu	Pressure drops
Spd	Fan speed
	The increase in head pressure with no G1 filter is negligible

Spd	ΔPu	KGF accessory (inlet grille with filter)					KG accessory (outlet grille)				
		Model					Model				
		20-24	30-34	45-48	60-74	80-88	20-24	30-34	45-48	60-74	80-88
min (1)	Pa	1,7	4,0	3,7	3,6	4,2	1,3	2,6	2,5	2,6	2,6
med (6)	Pa	8,9	12,9	10,4	16,1	23,7	6,5	8,2	6,1	10,8	17,2
max (10)	Pa	18,1	20,7	19,1	39,0	59,8	13,2	14,7	13,4	29,3	43,6

ΔPu	Pressure drops
Spd	Fan speed

Yardy-ID2

Spd	ΔPu	KFAC accessory (frame with G2 filter)		
		Model		
		40-48	60-74	80-88
min (2)	Pa	0,2	0,3	0,5
med (7)	Pa	1,5	2,1	2,8
max (10)	Pa	1,8	2,3	3,3

ΔPu	Pressure drops (additional to the nominal conditions)
Spd	Fan speed
	The increase in head pressure with no G1 filter is negligible

Spd	ΔPu	KGF accessory (inlet grille with filter)			KG accessory (outlet grille)		
		Model			Model		
		40-48	60-74	80-88	40-48	60-74	80-88
min (2)	Pa	2,9	3,1	4,0	2,7	2,6	2,6
med (7)	Pa	9,0	13,0	19,3	5,1	8,3	13,6
max (10)	Pa	11,1	14,5	25,9	6,7	9,5	19,0

ΔPu	Pressure drops (additional to the nominal conditions)
Spd	Fan speed
	The pressure drops are negligible for the KR9A/KR9M accessories

4.3 Sound power and pressure

Yardy-EV3			Sound power level in dB for octave bands							Overall sound pressure level	Sound pressure level (*)
	Speed		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
15	Minimum	6	25,3	32,6	27,3	20,7	19,8	14,7	14,2	29	20
	Medium	4	34,1	39,6	36,8	30,7	25,1	18,2	16,4	37	28
	Maximum	2	38,0	44,5	41,8	36,9	31,8	24,2	14,8	43	34
20	Minimum	6	29,8	34,3	30,4	23,1	14,6	6,0	5,6	30	21
	Medium	4	32,5	38,4	35,3	26,9	21,5	14,5	6,4	35	26
	Maximum	2	39,2	45,5	43,9	36,9	32,8	26,0	17,2	44	35
24	Minimum	5	29,8	35,5	31,3	22,7	16,9	11,1	5,1	32	23
	Medium	3	35,8	41,9	39,5	31,8	26,9	20,2	24,7	40	31
	Maximum	1	42,9	48,6	47,9	41,3	37,9	32,0	23,8	48	39
25	Minimum	5	25,8	33,1	28,4	21,8	20,6	15,9	16,1	30	21
	Medium	3	34,1	39,9	37,6	31,5	25,8	20,7	18,7	38	29
	Maximum	1	43,1	48,6	46,9	43,1	37,5	29,7	21,8	48	39
30	Minimum	6	33,0	38,4	35,3	29,0	21,1	10,7	6,0	35	26
	Medium	4	36,3	41,3	39,3	34,0	27,1	17,2	8,0	40	31
	Maximum	2	41,2	45,9	45,2	40,9	35,4	27,1	16,5	46	37
34	Minimum	5	33,0	38,4	35,3	29,0	21,1	10,7	6,0	36	27
	Medium	3	38,6	43,7	42,4	37,7	31,5	22,3	11,9	43	34
	Maximum	1	44,8	49,1	48,8	44,9	40,2	32,9	23,1	50	41
40	Minimum	6	32,2	37,7	34,4	27,5	24,6	16,0	13,5	35	26
	Medium	4	34,7	42,3	40,2	33,9	28,6	20,4	15,0	40	31
	Maximum	2	44,2	48,4	47,8	42,6	38,4	31,3	22,7	48	39
45-48	Minimum	6	33,0	37,9	33,8	27,2	23,8	20,5	18,9	35	26
	Medium	3	39,7	44,7	42,2	37,0	32,5	25,7	21,6	43	34
	Maximum	1	47,6	51,6	50,7	46,2	42,9	36,3	28,5	52	43
55-58	Minimum	5	38,3	43,4	40,3	33,6	29,9	22,5	23,0	41	32
	Medium	3	51,0	53,7	52,5	47,4	45,9	38,2	29,2	54	45
	Maximum	1	54,0	57,5	57,2	53,1	52,0	44,3	34,8	58	49
60	Minimum	6	45,1	48,1	46,9	41,3	37,6	31,2	24,7	48	39
	Medium	3	52,7	55,2	54,4	49,5	48,1	40,8	31,7	56	47
	Maximum	1	59,3	61,2	60,0	56,4	55,5	49,6	41,7	62	53
74	Minimum	6	45,1	48,1	46,9	41,3	37,6	31,2	24,7	48	39
	Medium	4	51,1	53,6	52,7	47,8	45,7	38,3	29,4	54	45
	Maximum	1	59,3	61,2	60,0	56,4	55,5	49,6	41,7	62	53
80	Minimum	6	54,0	56,5	56,2	51,9	47,8	41,1	32,6	57	48
	Medium	4	57,2	59,8	59,4	55,8	52,2	46,5	38,7	61	52
	Maximum	1	61,8	64,8	63,6	60,8	57,8	53,1	46,5	66	57
88	Minimum	6	54,0	56,5	56,2	51,9	47,8	41,1	32,6	57	48
	Medium	3	58,2	61,1	60,6	57,3	54,0	48,7	41,4	62	53
	Maximum	1	61,8	64,8	63,6	60,8	57,8	53,1	46,5	66	57

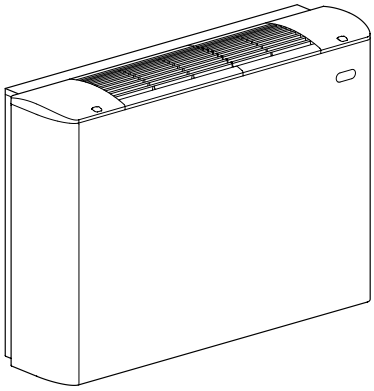
Yardy-I EV3		Sound power level in dB for octave bands							Overall sound pressure level	Sound pressure level (*)
	Speed	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
20-24	Minimum	25,3	32,6	27,3	20,7	19,8	14,7	14,2	29	20
	Medium	38,1	43,5	39,4	33,3	27,3	19,1	20,3	40	31
	Maximum	45,1	50,0	46,3	42,7	38,0	30,8	24,0	48	39
30-34	Minimum	25,2	32,8	27,2	20,6	19,9	14,8	14,4	29	20
	Medium	39,9	44,5	41,9	38,4	29,8	20,1	19,8	43	34
	Maximum	46,3	49,9	48,1	46,1	39,7	31,8	23,7	50	41
45-48	Minimum	25,4	32,7	27,3	20,8	19,9	14,7	14,3	29	20
	Medium	41,2	44,5	41,2	36,1	29,5	20,2	19,1	42	33
	Maximum	48,6	52,0	49,9	46,4	41,3	34,1	25,8	51	42
60-74	Minimum	25,8	33,1	28,4	21,8	20,6	15,9	16,1	30	21
	Medium	48,1	51,0	48,9	45,4	40,0	31,1	22,4	50	41
	Maximum	59,1	61,4	58,6	56,7	54,4	47,9	40,1	62	53
80-88	Minimum	27,7	31,7	26,7	29,0	19,4	18,0	19,8	32	23
	Medium	54,0	56,5	54,5	51,8	46,2	38,8	30,3	56	47
	Maximum	64,0	66,2	63,3	61,1	57,8	52,6	46,9	66	57

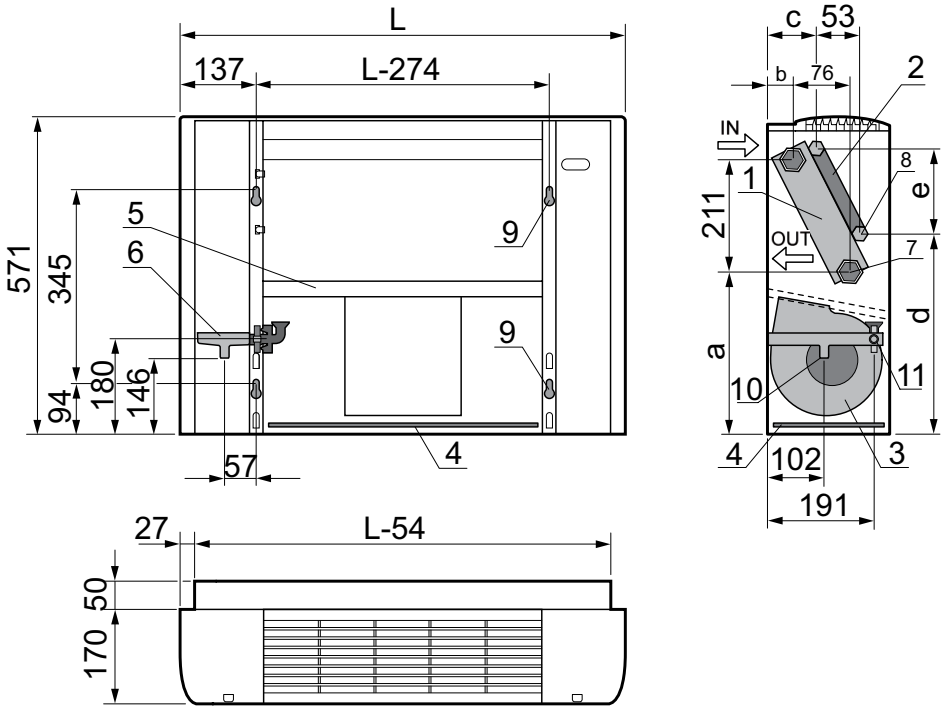
* Sound pressure level in dB(A) referring to a 1 m distance from the point of air outlet (with directionality factor Q=2).

5. Dimensions and clearances

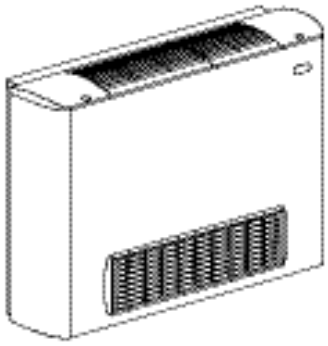
5.1 Vertical installation with cabinet

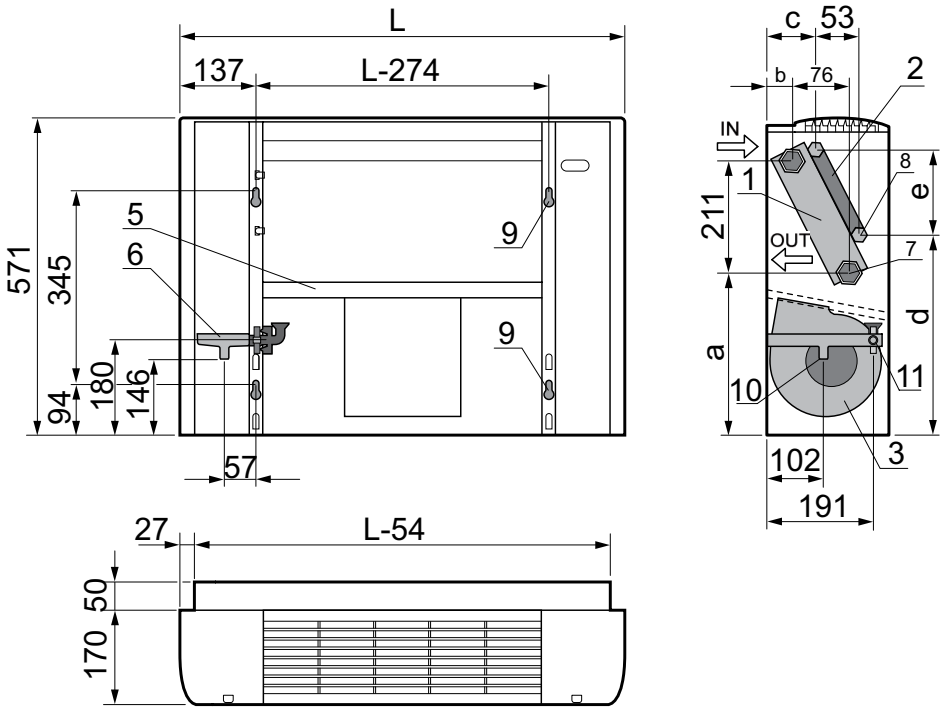
Yardy EV3 - Yardy-I EV3 version MVP - MXP





Yardy EV3 - Yardy-I EV3 version MVT-MXT





Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	700	800	1000	1200	1500

1 Standard coil
2 Additional coil (accessory)
3 Fan
4 Filter
5 Main condensation drain pan
6 Auxiliary condensation drain pan (accessory)
7 Main battery hydraulic connections
8 Additional battery hydraulic connections
9 Fixing slots
10 Additional condensate drain pan
11 Main condensate drain pan

Yardy		a	b	c	d	e
10-20-25-30-40	mm	280	51	105	354	148
45-55-58-60-80	mm	280	51	105	354	148
24-34	mm	290	59	111	347	148
48-74-88	mm	290	59	111	347	148

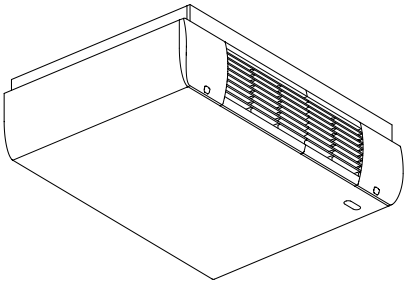
Connections

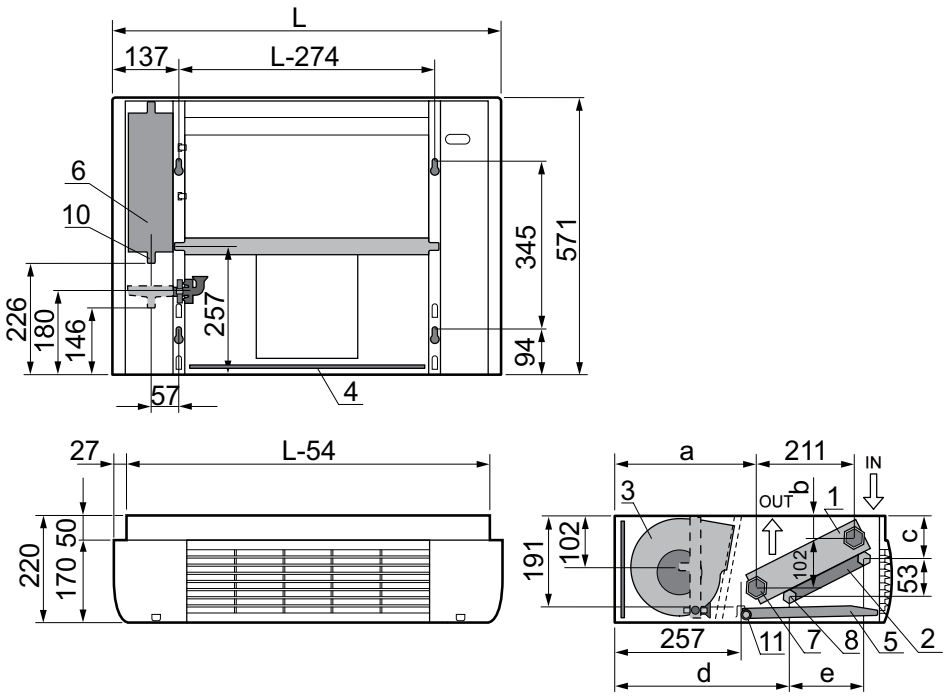
3/4" main female gas coil
1/2" additional female gas coil

Condensate drainage external diameter 16mm

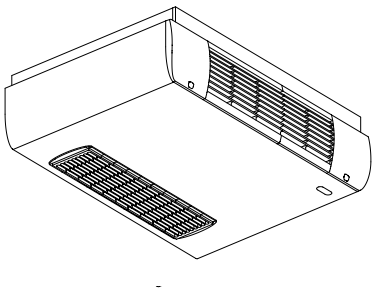
5.2 Horizontal installation with cabinet

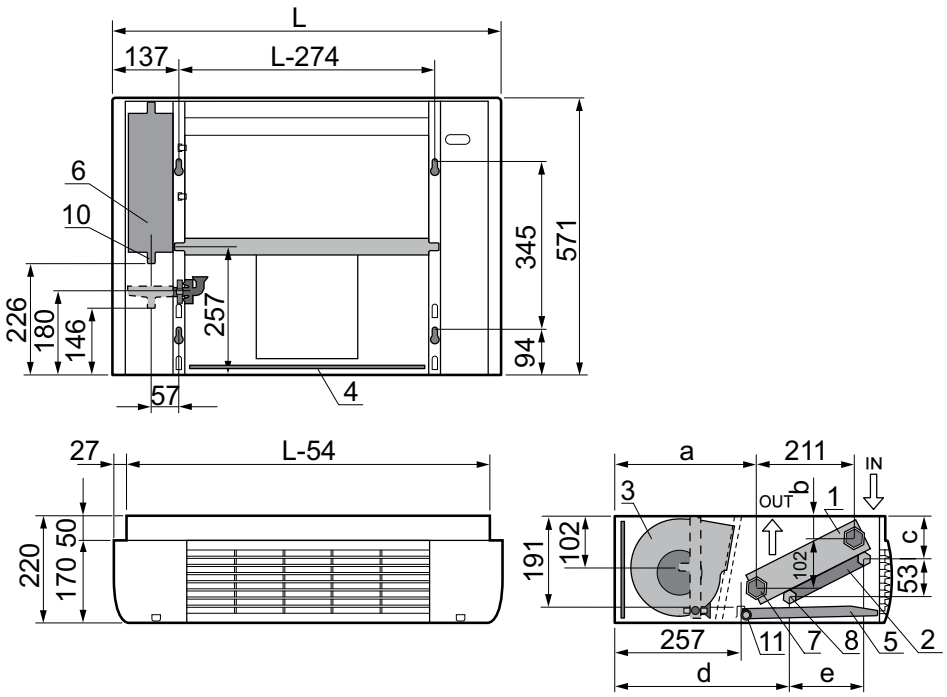
Yardy EV3 - Yardy-I EV3 version MXP





Yardy EV3 - Yardy-I EV3 version MXT





Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	700	800	1000	1200	1500

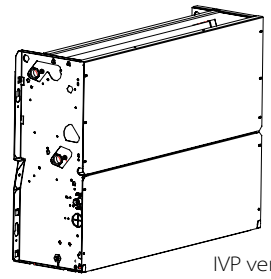
1 Standard coil
2 Additional coil (accessory)
3 Fan
4 Filter
5 Main condensation drain pan
6 Auxiliary condensation drain pan (accessory)
7 Main battery hydraulic connections
8 Additional battery hydraulic connections
9 Fixing slots
10 Additional condensate drain pan
11 Main condensate drain pan

Connections
3/4" main female gas coil
1/2" additional female gas coil

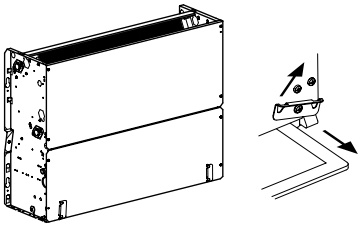
Condensate drainage external diameter 16mm

5.3 Vertical recessed or ductable installation

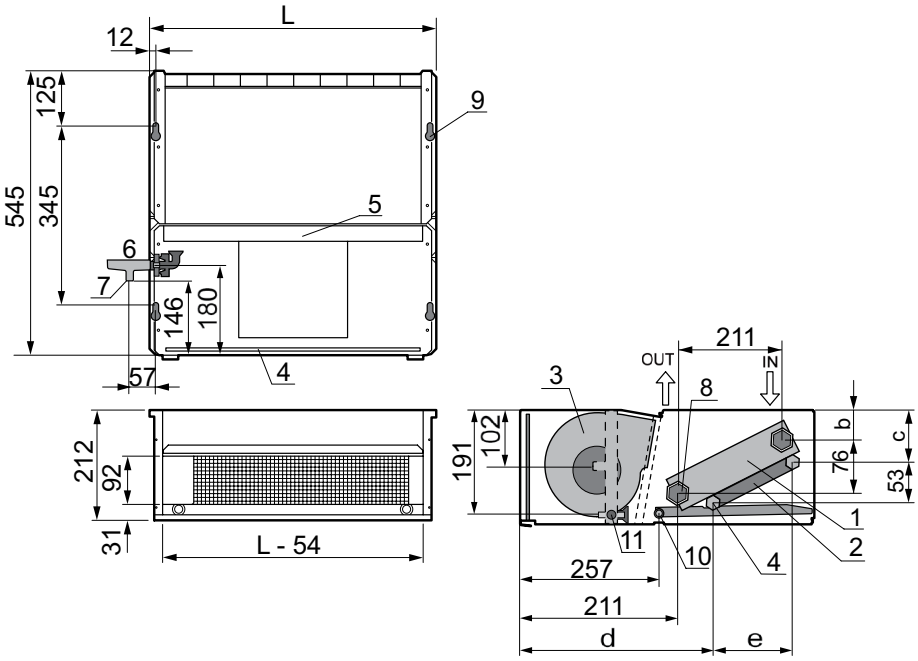
Yardy EV3 - Yardy-I EV3 version IVP-IXP YardyDUCT2, Yardy-ID2 version CXP



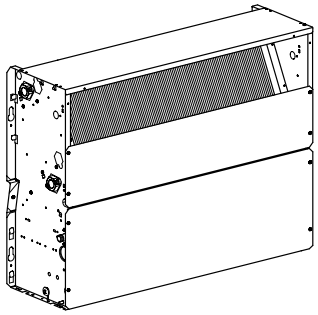
IVP version



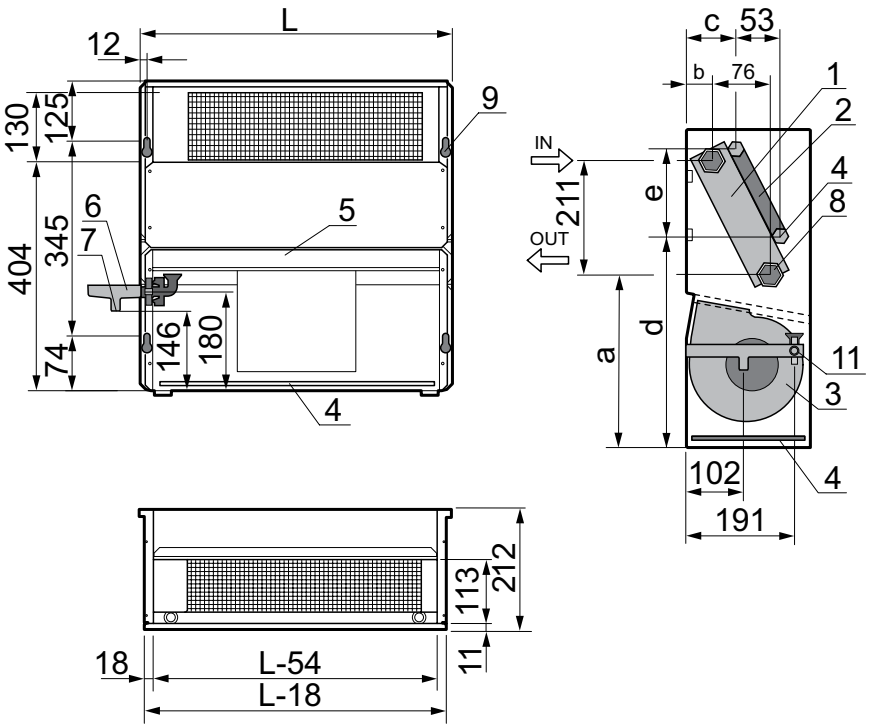
IXP-CXP version



Yardy EV3 - Yardy-I EV3 version IVF



IVF version



Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
L	mm	450	550	750	950	1250

YardyDUCT2		-	-	-	40-48	58-60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	-	-	-	950	1250

1 Standard coil
2 Additional coil (accessory)
3 Fan
4 Filter
5 Main condensation drain pan
6 Auxiliary condensation drain pan (accessory)
7 Condensate drain connection
8 Water connections
9 Fixing slots
10 Main condensate drain pan for horizontal installation
11 Main condensate drain pan for vertical installation

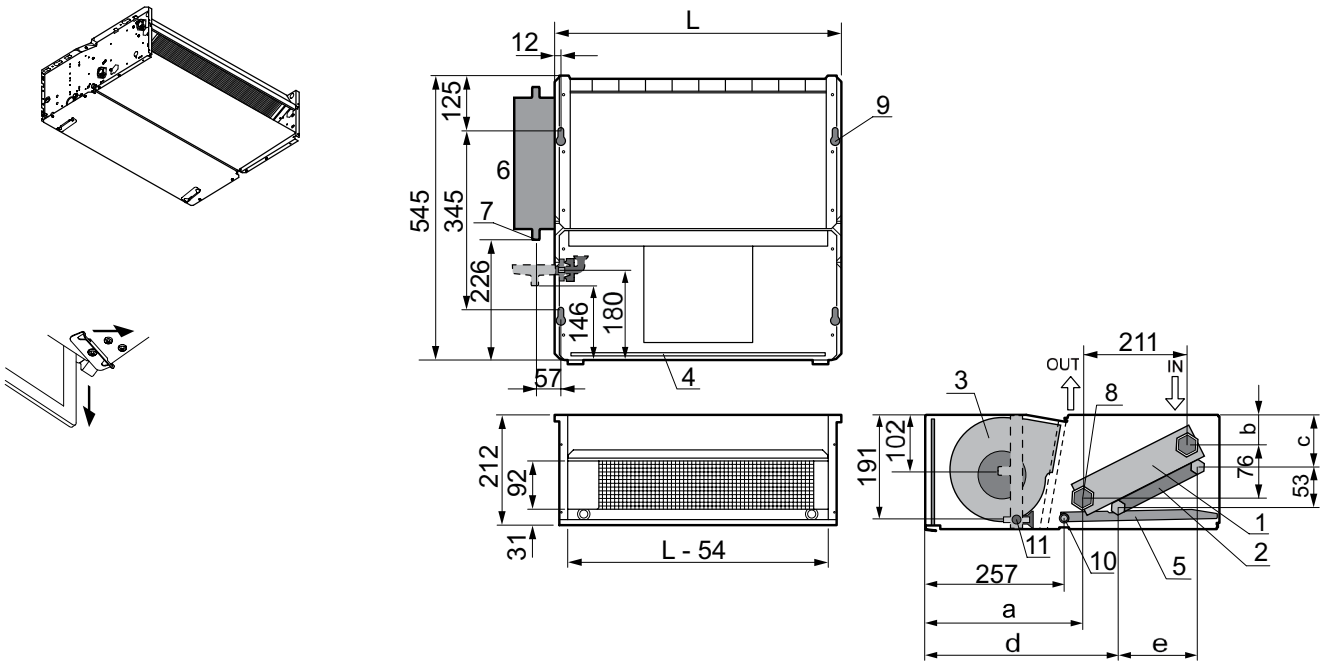
Yardy		a	b	c	d	e
10-20-25-30-40	mm	280	51	105	354	148
45-55-58-60-80	mm	280	51	105	354	148
24-34	mm	290	59	111	347	148
48-74-88	mm	290	59	111	347	148

Connections
3/4" main female gas coil
1/2" additional female gas coil

Condensate drainage external diameter 16mm

5.4 Horizontal recessed or ductable installation

Yardy EV3 - Yardy-I EV3 version IXP YardyDUCT2, Yardy-ID2 version CXP



Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
L	mm	450	550	750	950	1250

YardyDUCT2		-	-	-	40-48	58-60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	-	-	-	950	1250

1 Standard coil
2 Additional coil (accessory)
3 Fan
4 Filter
5 Main condensation drain pan
6 Auxiliary condensation drain pan (accessory)
7 Condensate drain connection
8 Water connections
9 Fixing slots
10 Main condensate drain pan for horizontal installation
11 Main condensate drain pan for vertical installation

Yardy		a	b	c	d	e
10-20-25-30-40	mm	280	51	105	354	148
45-55-58-60-80	mm	280	51	105	354	148
24-34	mm	290	59	111	347	148
48-74-88	mm	290	59	111	347	148

Connections
3/4" main female gas coil
1/2" additional female gas coil

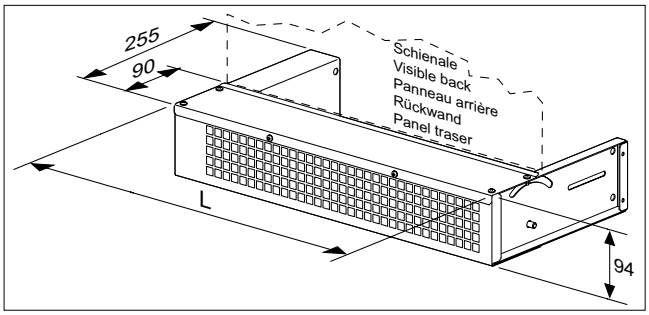
Condensate drainage external diameter 16mm

5.5 Dimensions and volume of accessories

Damper

KS Manually operated damper for outdoor air intake for the MVP version to be used with the KPC support feet accessory.

KSM Motorised damper for outdoor air intake (for the MVP versions to be used with KPC support feet accessory and with IVP, IVF, IXP and DUCT versions), with a limit switch contact to indicate the completely open state.
Power supply 230-1-50 V-ph-Hz.
The installer is responsible for the switch control.

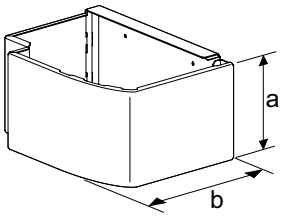


Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	400	500	700	900	1200

Support feet

KPC for Yardy-EV3 Yardy-I EV3

Only MVP version



a	mm	100
b	mm	150

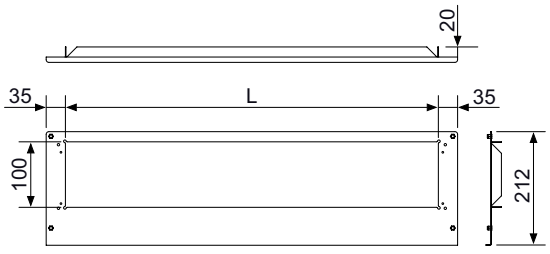
Plenum and fitting for built-in and ducted versions

Only for version IVP - IVF - IXP e YardyDUCT2, Yardy-ID2

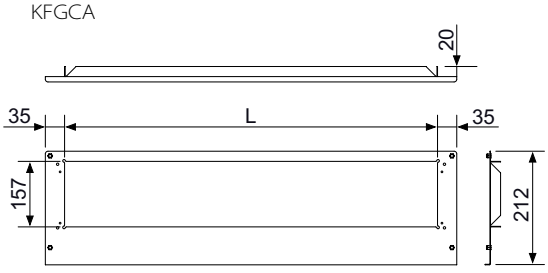
KFGCM Flanged frame for connection to the flow duct for versions IXP, IVP, DUCT

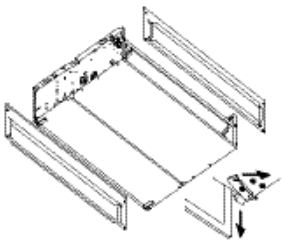
KFGCA Flanged frame for connection to the intake duct for IXP, IVP, DUCT versions

KFGCM



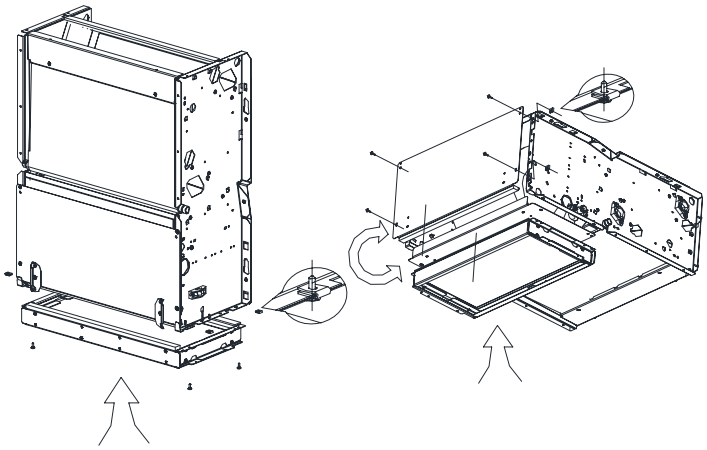
KFGCA



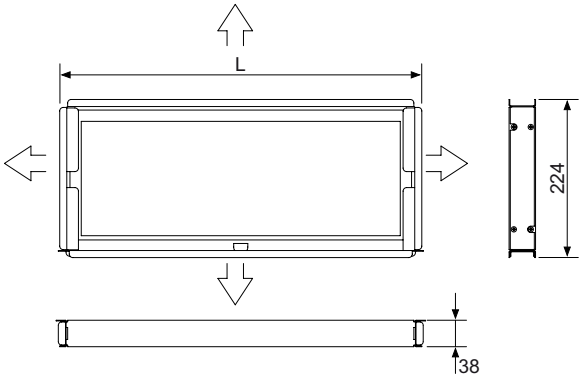


Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	400	500	700	900	1200

KFAC Frame with filter (G2) that can be extracted in any direction.



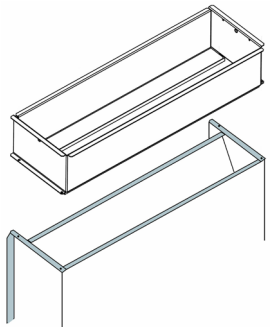
Only IXP version



Filter extraction

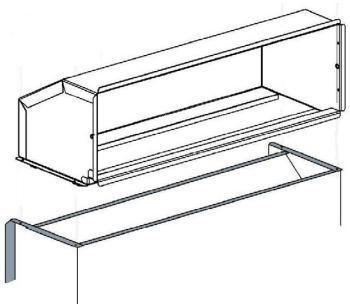
Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	420	520	720	920	1220

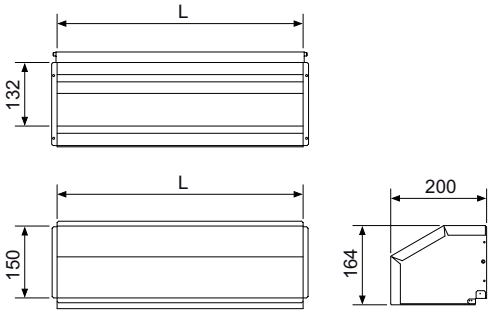
KRDM Straight fitting in flow made of galvanised sheet metal, for built-in versions IVP, IXP, CXP.



Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	410	510	710	910	1210

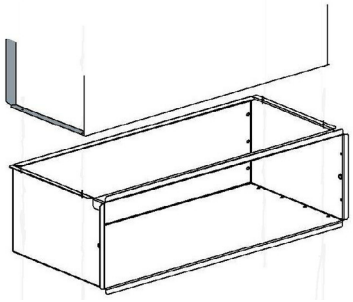
KR9M Outlet 90° connection made of galvanised sheet metal, for recessed versions IVP, IXP, CXP.

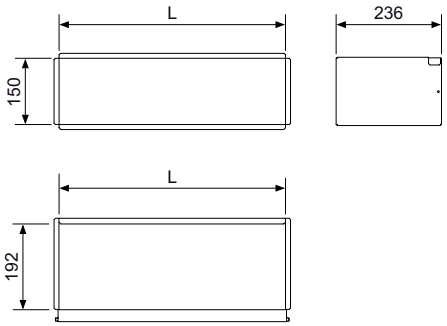




Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	410	510	710	910	1210

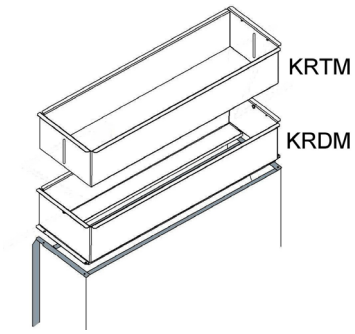
KR9A Inlet 90° connection made of galvanised sheet metal, for recessed versions IVP, IVF, IXP, CXP.

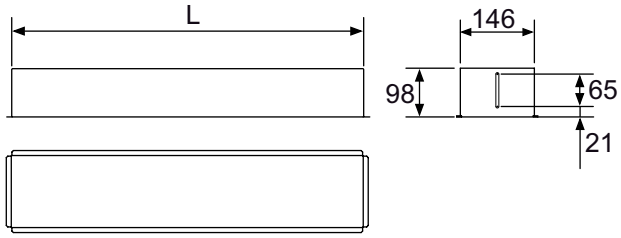




Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	410	510	710	910	1210

KRTM Telescopic fitting (between 21 and 86 mm) in flow/intake made of galvanised sheet metal, for connection to fittings KRDM, KR9M and KR9A only.

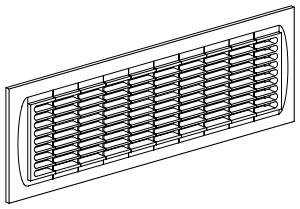


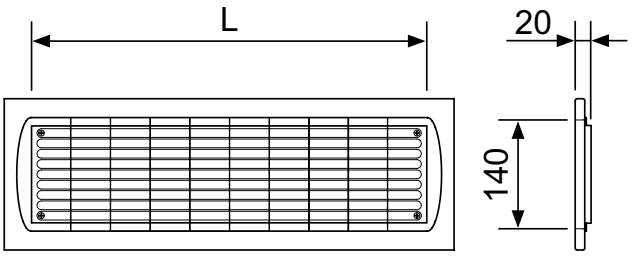


Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	405	505	705	905	1205

KGFw Intake grid with filter for fittings KRDM, KR9M, KR9A, KRTM.

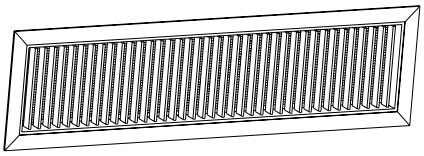
KGw Flow grid with filter for fittings KRDM, KR9M, KR9A, KRTM.

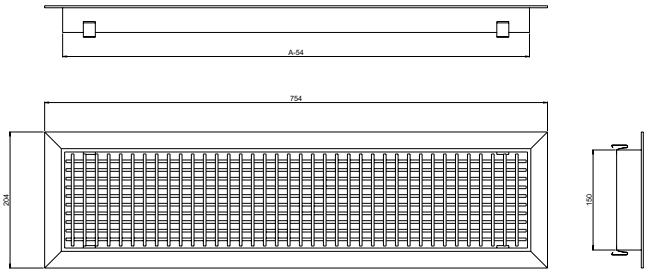




Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
L	mm	410	510	710	910	1210

KGMD Aluminium delivery nozzle (supplied separately - only for IVP, IXP versions with KRDM - KRTM fittings)



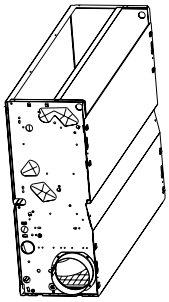


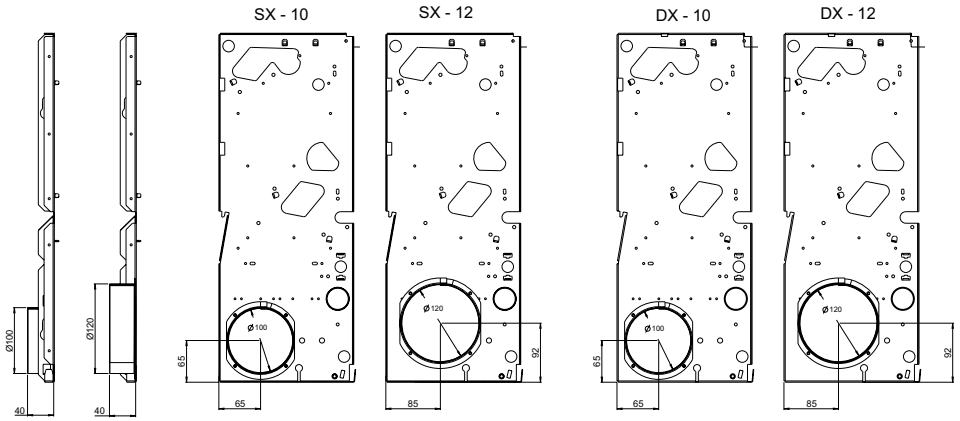
Yardy-EV3		20-24	25-30-34	40-45-48
Yardy-I EV3		20-24	30-34	45-48
YardyDUCT2		-	-	40-48
Yardy-ID2		-	-	40-48
A	mm	500	700	900

Return air flange

Ø10cm – Air inlet hole on the wiring side (only for IXP-IVP-IVF-CXP versions)

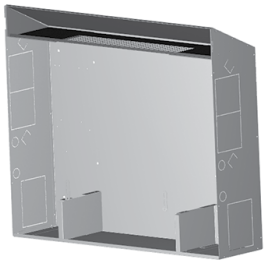
Ø12cm - Air inlet hole on the hydraulic connections side (only horizontal installation IXP-CXP version)

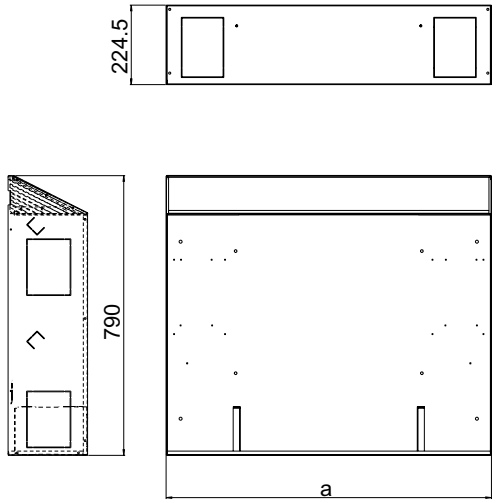




KCASE Casing for recessed wall or false ceiling installation (supplied separately - only for IVP, IXP, CXP versions)

Galvanised sheet steel casing to install the fan coil in a recessed wall or false ceiling installation, equipped with pre-cut holes to pass the pipes, support feet of the unit and anti-intrusion grille.

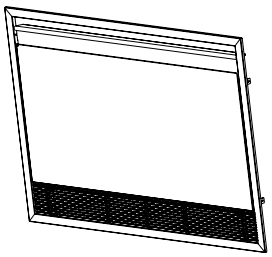


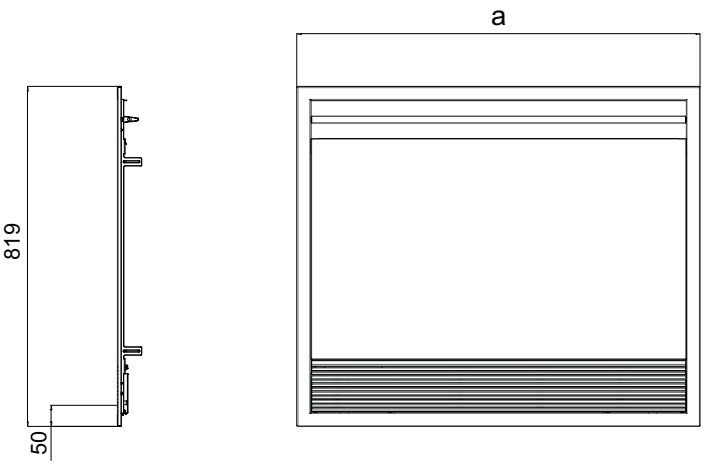


Yardy-EV3		20-24	25-30-34	40-45-48
Yardy-I EV3		20-24	30-34	45-48
YardyDUCT2		-	-	40-48
Yardy-ID2		-	-	40-48
a	mm	919	1123	1323

KPVCASE - COVER aesthetic panel for a wall-mounted casing, with an air delivery and return grille (supplied separately - only for IVP, IXP versions with KCASE)

Wall-mounted aesthetic panel for casing, with a frame, intake grille and swivel delivery fin 180°, matte white RAL 9003 colour.

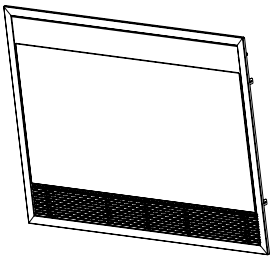


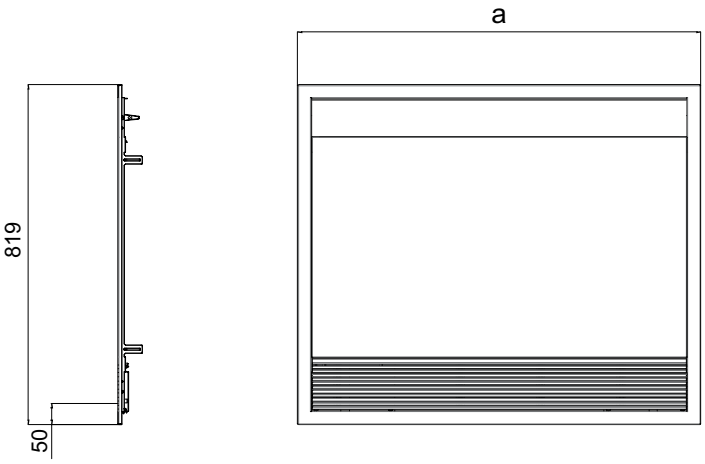


Yardy-EV3		20-24	25-30-34	40-45-48
Yardy-I EV3		20-24	30-34	45-48
a	mm	973	1173	1373

KPXCASE - COVER aesthetic panel for a casing, with an air inlet grille (supplied separately - only for IVP, IXP, CXP versions with KCASE and KRDM - KRTM fittings)

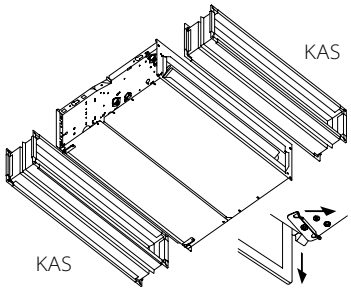
Wall or ceiling-mounted aesthetic panel for casing, with a frame and intake grille, matte white RAL 9003 colour.

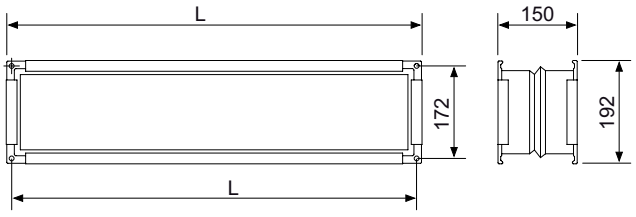




Yardy-EV3		20-24	25-30-34	40-45-48
Yardy-I EV3		20-24	30-34	45-48
YardyDUCT2		-	-	40-48
Yardy-ID2		-	-	40-48
a	mm	973	1173	1373

KAS Anti-vibration fitting for connection to the flow/intake duct (to be used with KFGCM - KFGCA).

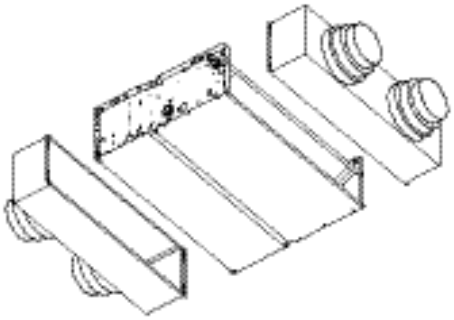


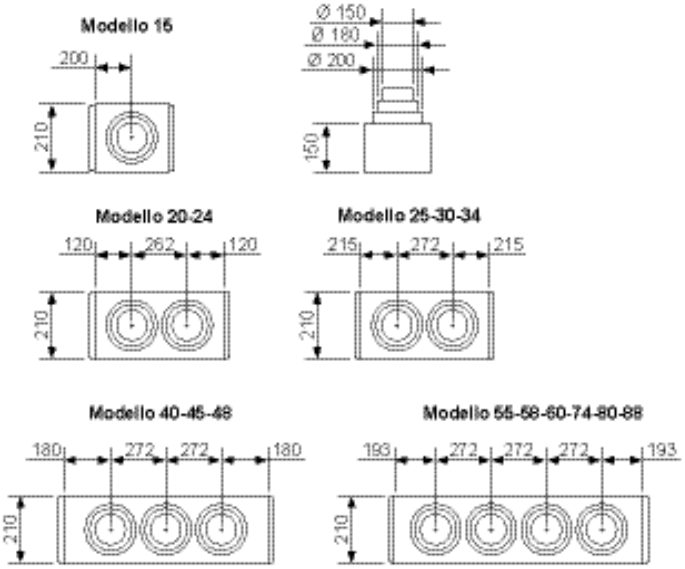


Yardy-EV3		15	20-24	25-30-34	40-45-48	55-58-60-74-80-88
Yardy-I EV3		-	20-24	30-34	45-48	60-74-80-88
YardyDUCT2		-	-	-	40-48	60-74-80-88
Yardy-ID2		-	-	-	40-48	60-74-80-88
a	mm	470	570	770	970	1270

KPAF Intake plenum with circular nozzles (Ø 150-180-200 mm) for versions IVP, IXP and DUCT

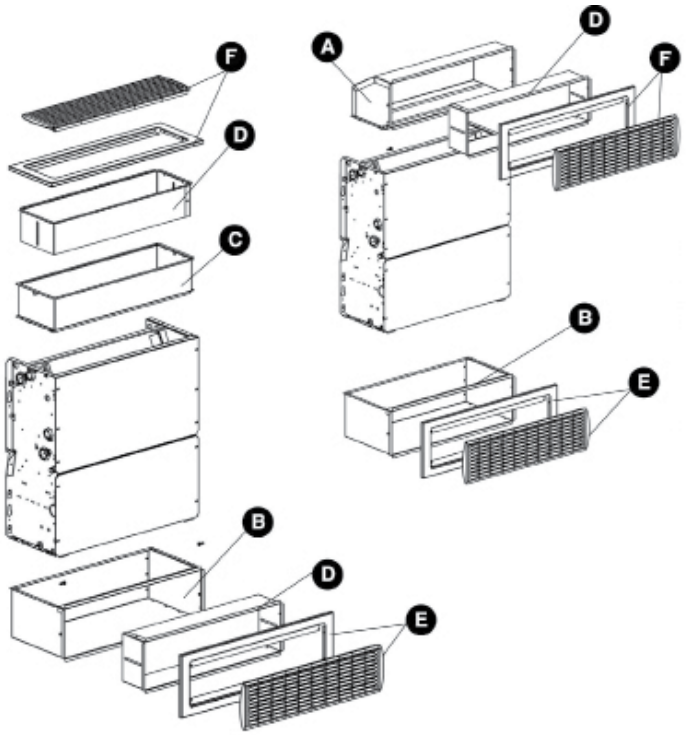
KPM Flow plenum, insulated internally, with circular nozzles (Ø 150-180-200 mm) for versions IVP, IXP and DUCT





Plenum and fittings use examples

A	Outlet 90° connection KR9M
B	Inlet 90° connection KR9A
C	Outlet straight connection KRDM
D	Outlet/inlet telescopic connection KRTM
E	Inlet grille with filter KGFw
F	Outlet grille KGw

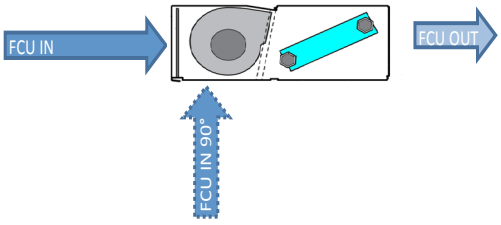


The routine maintenance operations of recessed and ductable versions (IVP, IVF, IXP, CXP) installed with KPLV-KPLO, KRDMKR9M- KR9A-KRTM-KGF accessories are facilitated by removing the filter supplied with the unit and using the filter in the inlet grille. If the KPAF-KPM accessory is present, access to the filter must be guaranteed for periodic cleaning.

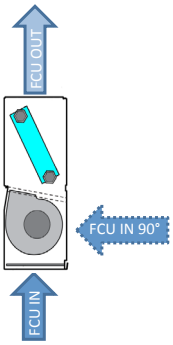
Plenum and fittings assembly configuration table

Accessory	description	Versions	Can be connected to:	Positioning	Assembly diagram
KFGCM	Flanged frame in flow	IXP-IVP-CXP	FCU OUT, KFAC	Flow only	**FCU** → **KFGCM** →
KFGCA	Flanged frame in intake	IXP-IVP-IVF-CXP	FCU IN, KFAC	Intake only	→ **KFGCA | FCU** →
KFAC	Frame with G2 filter	IXP IVP IVF CXP	FCU IN FCU IN 90°	Front intake or lower intake	→ **KFAC | FCU** → **KFAC** ↑
KAS	Antivibration connection	IXP-IVP-IVF-CXP	KFGCA, KFGCM	Flow/intake With KFGCM/KFGCA	**KAS** → **KFGCA** → **FCU** → **KFGCM** → **KAS** →
KRDM	Outlet straight connection	IXP-IVP-CXP	FCU OUT	Flow only	**FCU** → **KRDM** →
KR9M	90° fitting in flow	IXP-IVP-CXP	FCU OUT	Flow only	**FCU** → **KR9M** ↓
KR9A	Inlet 90° connection	IXP-IVP-IVF-CXP	FCU IN	Intake only	↑ **KR9A | FCU** →
KRTM	Telescopic connection	IXP-IVP-IVF-CXP	KR9A, KR9M, KRDM	Flow/intake with KR9A, KR9M, KRDM only	↑ **KR9A | FCU** → **KRDM** → **KRTM** → **KG/KGMD** **KR9M** ↓
KGFw	Inlet grille with filter	IXP-IVP-IVF-CXP	KRTM	Intake only with KR9A, KR9M, KRDM, KRTM	↑ **KRTM** **KRTM** ↓
KGw	Outlet grille	IXP-IVP-IVF-CXP	KRTM	Flow only with KR9A, KR9M, KRDM, KRTM	
KGMD	Delivery nozzle	IXP-IVP-IVF-CXP	KRTM	Flow only with KR9A, KR9M, KRDM, KRTM	**KGF** **KG/KGMD**
KPAF	Intake plenum with nozzles	IXP-IVP-CXP	FCU IN, KFAC	Intake only	**KPAF** → **FCU** → **KPAF** → → **KFAC | FCU** →
KPM	Flow plenum with nozzles	IXP-IVP-CXP	FCU OUT	Flow only	**FCU** → **KPM** →

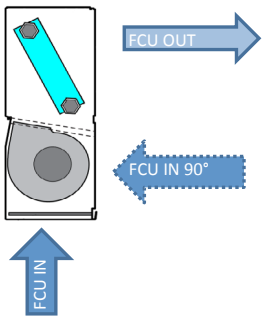
YARDY VERSION IXP DUCT



YARDY IVP VERSION



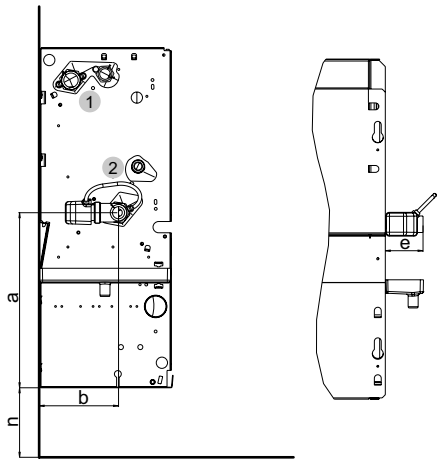
YARDY IVF VERSION



5.6 Valve dimensions and clearances

2-way ON/OFF electrovalve

KE2-2V, E2-2V - 2-way ON/OFF electrovalve for 2-pipe systems

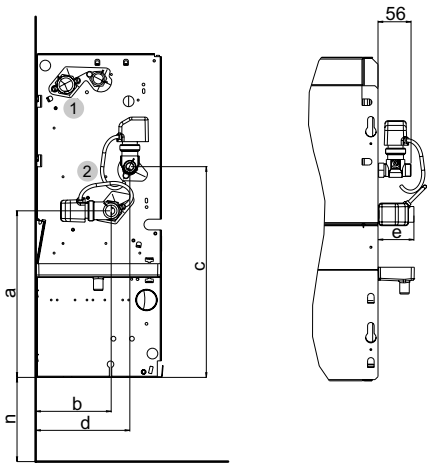


1	Water inlet
2	Water outlet

Yardy - Yardy-I		a	b	e
15-20-25-30-40	mm	280	127	57
45-55-58-60-80	mm	280	127	60
24-34	mm	290	135	57
48-74-88	mm	290	135	60

YardyDUCT - Yardy-ID		a	b	e
40-60-80	mm	280	127	60
48-74-88	mm	290	135	60

KE4-2V, E4-2V - 2-way ON/OFF electrovalve for 4-pipe systems



1	Water inlet
2	Water outlet

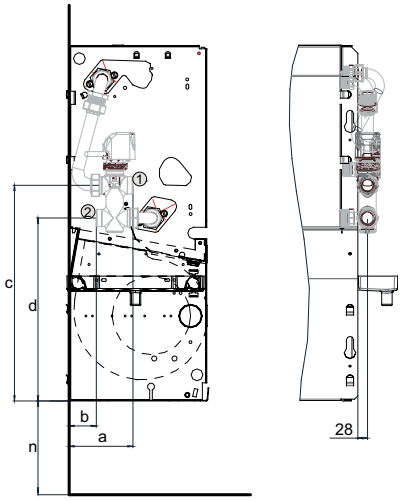
Yardy - Yardy-I		a	b	c	d	e
15-20-25-30-40	mm	280	127	354	158	57
45-55-58-60-80	mm	280	127	354	158	60
24-34	mm	290	135	347	164	57
48-74-88	mm	290	135	347	164	60

YardyDUCT - Yardy-ID		a	b	c	d	e
40-60-80	mm	280	127	354	158	60
48-74-88	mm	290	135	347	164	60

n ≥ 100	MVP, MXP, MVT + KPP/KPPG, MXT + KPP/KPPG
n = 0	MVT, MXT

3-way ON/OFF electrovalve

KE2, E2 - 3-way ON/OFF electrovalve for 2-pipe systems

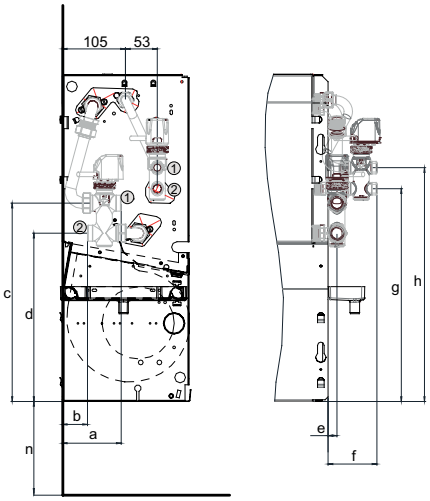


1	Water inlet
2	Water outlet

Yardy - Yardy-I		a	b	c	d
15-20-25-30-40	mm	94	42	315	280
45-55-58-60-80	mm	98	42	330	280
24-34	mm	102	50	324	289
48-74-88	mm	106	50	339	289

YardyDUCT - Yardy-ID		a	b	c	d
40-60-80	mm	98	42	330	280
48-74-88	mm	106	50	339	289

KE4, E4 - 3-way ON/OFF electrovalve for 4-pipe systems



1	Water inlet
2	Water outlet

Yardy - Yardy-I		a	b	c	d	e	f	g	h
15-20-25-30-40	mm	94	42	315	280	28	155	347	382
45-55-58-60-80	mm	98	42	330	280	28	160	347	382
24-34	mm	102	50	324	289	28	155	347	382
48-74-88	mm	106	50	339	289	28	160	347	382

YardyDUCT - Yardy-ID		a	b	c	d	e	f	g	h
40-60-80	mm	94	42	315	280	28	155	347	382
48-74-88	mm	106	50	339	289	28	160	347	382

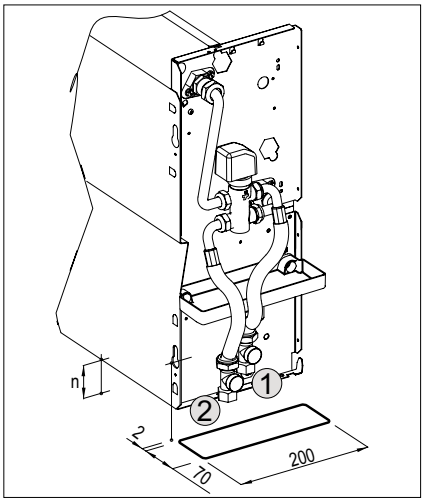
n ≥ 100	MVP, MXP, MVT + KPP/KPPG, MXT + KPP/KPPG
n = 0	MVT, MXT

Vertical and horizontal versions

2-pipe systems

KE2DD, E2DD - ON/OFF 3-way electrovalve with hoses on system side and straight balancing valve

CONNECTION WITH FLOOR MOUNTED PIPES

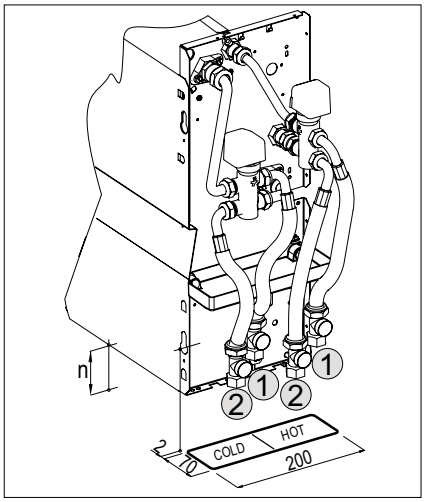


Vertical and horizontal versions

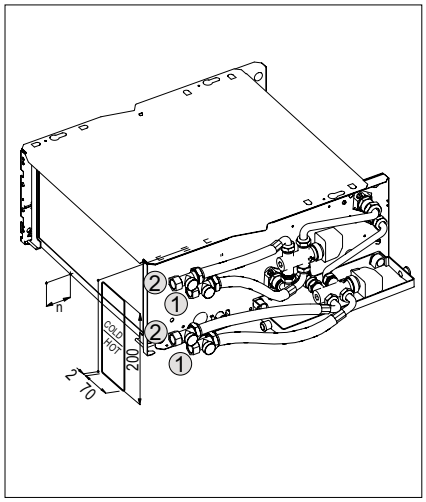
4-pipe systems

KE4DD, E4DD - ON/OFF 3-way electrovalve with hoses on system side and straight balancing valve

CONNECTION WITH FLOOR MOUNTED PIPES



CONNECTION WITH WALL MOUNTED PIPES



1	Water inlet
2	Water outlet

n ≥ 100	MVP, MXP, MVT + KPP/KPPG, MXT + KPP/KPPG
n = 0	MVT, MXT

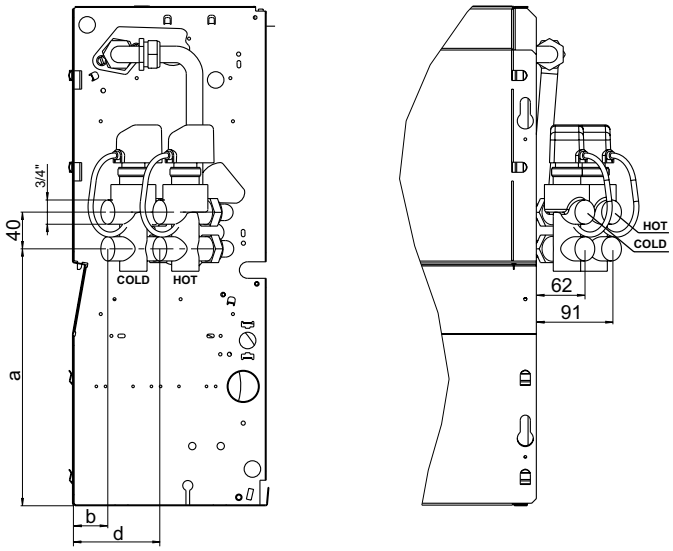
NOTE

- The auxiliary condensate drain pan accessory (KVAV-VAV for vertical versions and KVAO-VAO for horizontal versions) must be requested separately.
- The minimum radius of the flexible hoses must not be less than 50 mm.

Vertical and horizontal versions

4-pipe systems

KE2X4, E2X4 - 4-way ON / OFF solenoid valves for 4-pipe systems, for single-battery units



Yardy - Yardy-I		a	b	d
15-20-25-30-40	mm	280	47	104
45-55-58-60-80	mm	280	47	104
24-34	mm	2809	38	95
48-74-88	mm	289	38	95

YardyDUCT - Yardy-ID		a	b	d
40-60-80	mm	280	47	104
48-74-88	mm	289	38	95

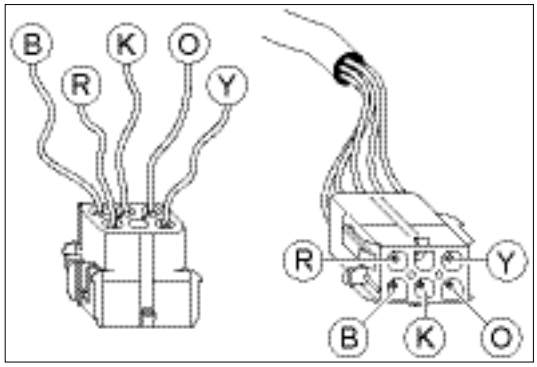
5.7 Connection pressure drops and dimensions

Plant type	Valve accessory designation	Valves quantity present in the accessory	Valve type ON/OFF	Battery type	Diameter valve connections	Models: Yardy Yardy-I	Models: Yardy Duct Yardy-ID	Water flow rate [l/h]													
								100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
								Pressure drops (kPa)													
2-pipe	KE2, E2	1	3-way	Main	1/2"	15÷40	-	0,6	2,4	5,3	9,5	14,8	21,3	29	38	48	-	-	-	-	-
					3/4"	45÷88	40÷88	-	-	-	4,1	6,4	9,2	13	16	21	26	31	37	43	50
	KE2-2V, E2-2V	1	2-way	Main	1/2"	15÷40	-	0,6	2,4	5,3	9,5	14,8	21,3	29	38	48	-	-	-	-	-
					3/4"	45÷88	40÷88	-	-	-	4,1	6,4	9,2	13	16	21	26	31	37	43	50
	KE2DD, E2DD	1	3-way+ holder	Main	1/2"	15÷40	-	1,6	6,4	14,5	25,8	40,3	58	79	103	131	-	-	-	-	-
					3/4"	45÷88	40÷88	-	-	-	18,4	28,7	41,3	56	73	93	115	139	165	194	225
4-pipe	KE4, E4	2	3-way	Main	1/2"	15÷40	-	0,6	2,4	5,3	9,5	14,8	21,3	29	38	48	-	-	-	-	-
					3/4"	45÷88	40÷88	-	-	-	4,1	6,4	9,2	13	16	21	26	31	37	43	50
				Additional	1/2"	15÷88	40÷88	0,6	2,4	5,3	9,5	14,8	21,3	29	38	48	-	-	-	-	-
	KE4-2V, E4-2V	2	2-way	Main	1/2"	15÷40	-	0,6	2,4	5,3	9,5	14,8	21,3	29	38	48	-	-	-	-	-
					3/4"	45÷88	40÷88	-	-	-	4,1	6,4	9,2	13	16	21	26	31	37	43	50
				Additional	1/2"	15÷88	40÷88	0,6	2,4	5,3	9,5	14,8	21,3	29	38	48	-	-	-	-	-
	KE4DD, E4DD	2	3-way+ holder	Main	1/2"	15÷40	-	1,6	6,4	14,5	25,8	40,3	58	79	103	131	-	-	-	-	-
					3/4"	45÷88	40÷88	-	-	-	18,4	28,7	41,3	56	73	93	115	139	165	194	225
				Additional	1/2"	15÷88	40÷88	1,6	6,4	14,5	25,8	40,3	58	79	103	131	-	-	-	-	-
	KE2X4, E2X4	1	4-way	Main	3/4"	15÷88	40÷88	0,2	1,2	3,2	6,5	11	17	24	33	45	57,5	72,5	87,5	105	124

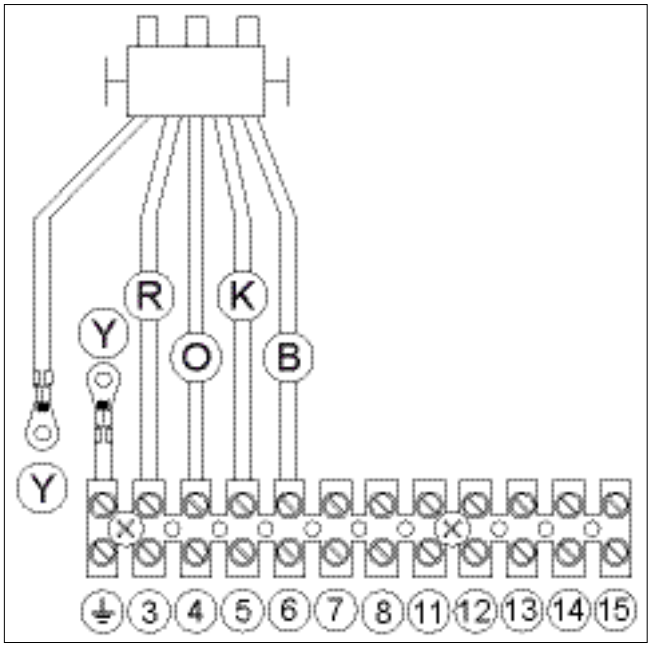
6. Electrical connections

6.1 Yardy-EV3

Versions MVP-MVT



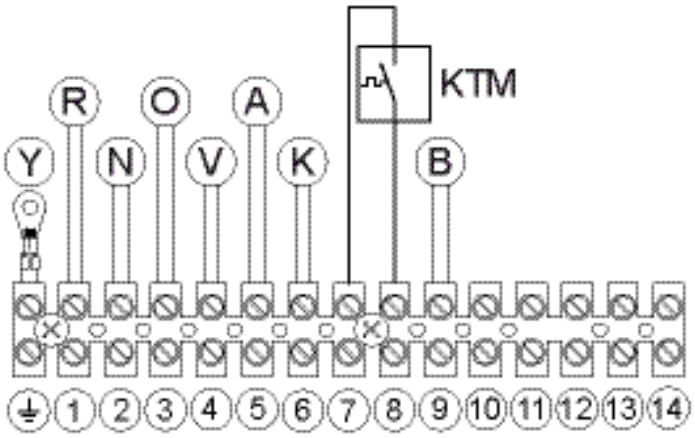
Versions Yardy-EV3 MXP-MXT-IVP-IVF-IXP



NOTE

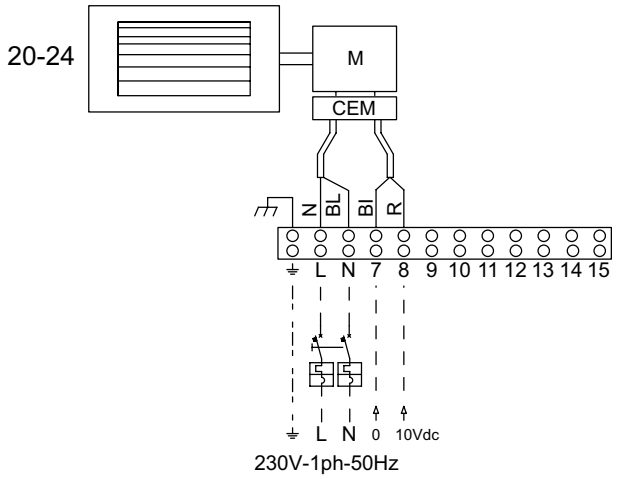
When mounting command KC or KTA drives MXP / MXT installed vertically, this wiring and its label must be removed.

6.2 YardyDUCT CXP version

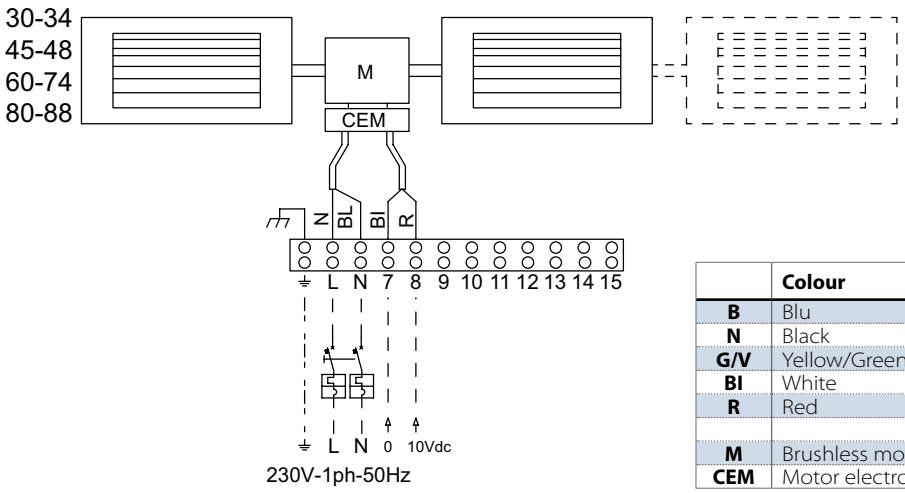


	Colour	DUCT
B	Blu	Common
K	Black	Speed VI (max)
A	Grey	Speed V
V	Violet	Speed IV
O	Orange	Speed III
N	Brown	Speed II
R	Red	Speed I (min)
Y	Yellow/Green	
KTM	Minimum temperature thermostat (accessory)	

6.3 Yardy-I EV3 - Yardy-ID2



- Data for connecting an external controller to the fan coil. Motor input impedance 100 KOhm. Signal 0-10 Vdc.
- Start-up limit 1V.
- Shutdown limit 0.9V.
- Maximum speed 10 Vdc.



	Colour	
B	Blu	Neutral
N	Black	Line
G/V	Yellow/Green	Earth
BI	White	0Vdc
R	Red	10Vdc
M	Brushless motor	
CEM	Motor electronic control	

NOTE

When designing and sizing the power line and protection systems for units with a brushless EC Inverter synchronous motor, pay attention to the leakage current values to earth as they are higher than those for traditional units with an asynchronous motor.
It is always advisable to keep installation of the unit under a dedicated differential protection.
The Yardy-I, Yardy-ID units with a brushless EC Inverter-type of synchronous motor, conform to the limits stipulated in standard IEC-EN 60335 with a maximum dispersion of 3.5 mA, which is permissible and imposed by the standard.

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