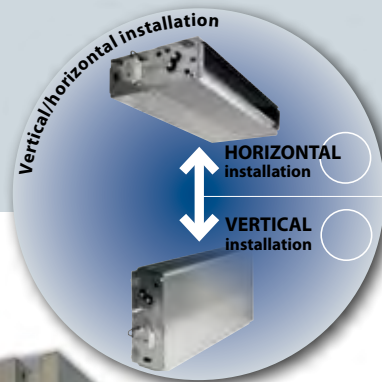


# Ducted fan coils

## YARDY-HP

Cooling capacity: 7,2÷20,5 kW - Heating capacity: 9,6÷28 kW



### • Vertical and horizontal installation

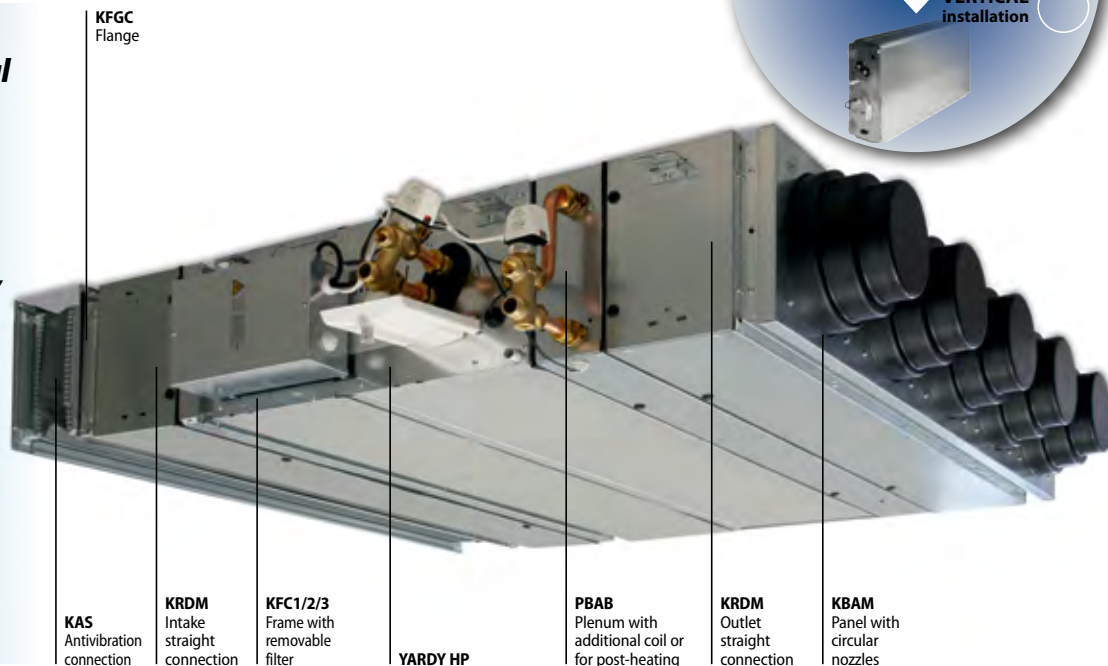
• New cleanable drain pan, removable from below

• Configurations with 3, 4, 5 rows coil

• Filters with different efficiency levels

• Remote control

• Fan motor compliant with 327/2011 EU Regulation (ERP Directive)



### Ductable fan coil units for recessed horizontal or vertical installation.

#### Construction features

- Load-bearing galvanised sheet metal structure for horizontal or vertical installation. Complete with condensation drain pan with natural drainage and connections to the supply or return duct. Drain pan removable from below.
- Finned coil heat exchanger with copper pipes and aluminium fins, threaded connections (Ø 3/4" male for model 100, 150, 200; Ø 1" male for model 250, 300); equipped with air bleed and discharge valve. Connections are set on the left-hand side of the unit and can be switched to the right directly on site. Coil removable from below.
- Double suction centrifugal fan with statically and dynamically balanced aluminium fans and directly coupled 3-speed motor, equipped with internal thermal protection with capacitor permanently on, IP20 protection grade. Fan deck removable from below.
- Electrical box with terminal board for power supply on the same side of water connection with possibility to be switched to the right, directly on site.

#### Technical configurations

##### Rows number

- 3R - Unit with 3-row coil., with rear air intake
- 4R - Unit with 4-row coil., with rear air intake
- 5R - Unit with 5-row coil, with rear air intake (only for mod. 250-300).

##### Main drain pan

VIX - Unit with stainless steel AISI 304 internal drain pan.

##### Accessories

- ❖ Additional water heating coil (1 row) for 4-pipe systems 4T(BAA)-KBAA - for 3R unit with 3 rows coil only.
- External plenum with additional water heating coil for 4-pipe systems (PBAB).
- ❖ ON/OFF 2-way valves for 2 and 4-pipe systems.
- ❖ On/OFF 3-way valves for 2 and 4-pipe systems.

- ❖ Auxiliary condensation drain pan.
- Frame with filter that can be extracted in any direction (efficiency rating G1/G2/G3).
- Straight outlet and inlet connection.
- 90° outlet and inlet connection.
- Flange for connection to duct.
- Antivibration connection for connection to the inlet/outlet duct.
- Panel with circular nozzles to be connected to the outlet/inlet connections.

#### Standard controls

##### For wall mounting installation

- Panel with speed and summer/winter switch.
- Panel with room thermostat, summer/winter switch, speed switch, ON/OFF valve signal and electric heater.
- Electronic panel with automatic summer/winter switch for 2-pipe systems.
- Electronic panel with automatic summer/winter switch and automatic speed regulation for 2-pipe systems with electric heater or 4-pipe systems.
- Air sensor with remote control option.
- Interface card for controlling up to 4 fan coil units (models 100-150-200 only, for on board installation).

#### Controls

- Wall-mounted remote control receiver with remote control.
- Electronic control panel for wall mounting
- Wall-mounted recessed electronic panel

##### For installation on machine

- ❖ Master/slave electronic board.
- ❖ Temperature probe for hot row.
- ❖ Module for ON/OFF valves and electric heater management.
- Serial interfaces for connection to BMS (proprietary protocol, Modbus RTU).
- Serial converters (RS485/USB) in case of centralised unit management.
- Serial interface (CAN-bus - Controller Area Network) for the iDRHOSS system.

Key: ❖ Factory-mounted → Supplied loose



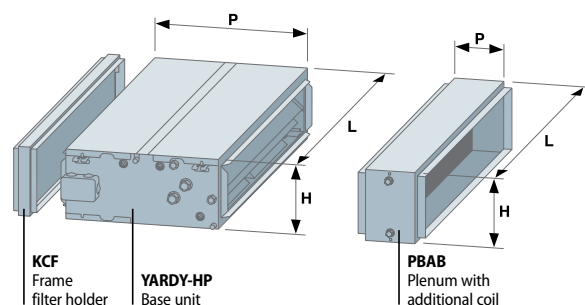
DUCTABLE UNIT



YARDY HP MODEL			100	150	200	250	300	
①	Total cooling capacity	3R	kW	7,16	8,37	10,13	13,55	15,25
②	Heat capacity (50°C)	3R	kW	9,66	11,71	14,27	19,08	21,75
①	Total cooling capacity	4R	kW	8,41	9,51	11,37	16,58	18,80
②	Heat capacity (50°C)	4R	kW	10,86	12,67	15,36	22,28	25,63
①	Total cooling capacity	5R	kW	-	-	-	18,70	20,50
②	Heat capacity (50°C)	5R	kW	-	-	-	24,88	27,89
③	Heat capacity of additional coil (70°C)	4T(BAA)-KBAA	kW	6,69	6,78	9,35	10,44	11,31
④	Heat capacity of additional coil (70°C)	PBAB	kW	12,90	14,14	16,40	29,73	32,77
④	Air flow rate/Static pressure (3R)	MAX	m³/h / Pa	1.552 / 60	1.840 / 60	2.339 / 60	3.312 / 60	3.875 / 60
		MED	m³/h / Pa	1.369 / 50	1.620 / 50	1.717 / 50	2.189 / 50	3.075 / 50
		MIN	m³/h / Pa	1.013 / 35	1.432 / 35	1.414 / 35	1.329 / 35	2.415 / 35
⑤	Outlet sound power level (3R)	MAX	dB(A)	61	62	62	63	68
		MED	dB(A)	59	61	60	59	64
		MIN	dB(A)	56	59	57	55	61
⑥	Sound power level (3R)	MAX	dB(A)	47	48	48	49	54
		MED	dB(A)	45	47	46	45	50
		MIN	dB(A)	42	45	43	41	47
Maximum absorbed power (3R)			W	270	340	400	700	710
Power supply			V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
SIZES AND WEIGHTS			100	150	200	250	300	
L - Width	mm		1.295	1.295	1.295	1.295	1.295	
H - Height	mm		250	250	285	335	335	
P - Depth YARDY HP	mm		555	555	670	720	720	
P - Depth PBAB	mm		200	200	200	200	200	
Weight YARDY HP	kg		38	38	46	57	57	

Data in the following conditions:

- ① Air: 27°C D.B.; 19°C W.B. - Water: 7/12°C. Maximum speed.
- ② Air: 20°C - Water: 50°C, flow rate as in cooling. Maximum speed.
- ③ Air: 20°C - Water: 70/60°C. Maximum speed.
- ④ 3-row coil (3R) without filter.
- ⑤ With G3 filter according to Eurovent 8/12 test.
- ⑥ At 2 m from the air outlet point with directionality factor of 2 and G3 filter.



WATER CHILLERS  
HEAT PUMPS  
AIR-cooled  
AXIAL fans

WATER CHILLERS  
HEAT PUMPS  
AIR-cooled  
CENTRIFUGAL fans

WATER CHILLERS  
HEAT PUMPS  
WATER-cooled  
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SYSTEM ACCESSORIES

FAN COIL CONVECTORS

TERMINAL UNITS