Terminal unit

UTNA Platinum 013÷120

Cooling capacity: 6.4÷70 kW - Heating capacity: 4.9÷78 kW

√ Compliant with ErP 2018 NRVU

√ BRUSHLESS EC fan

√ F7 high efficiency filters

Web code: UTAP1

Modular ductable air handling terminal units.

Construction features

• Terminal air handling unit: with modules for horizontal or vertical installation (013-050) with or without ducting.
• Structure with double wall sandwich type freestanding panelling, 30mm-thick with closed cell polyurethane foam insulation with high soundproofing and thermal insulation capacity.
• Routine machine maintenance from the bottom (for the horizontal version with installation in false ceiling or hanging from ceiling) or frontally (for the vertical version) with removable panels.
• BA coil module (horizontal) / BAV coil module (vertical up to size 050) complete with: G4 standard filter, optional fine F7 filter. All filters are supplied complete with differential pressure switch to signal filter clogging condition in compliance with European regulation no. 1253/2014.
Finned coil heat exchanger, with copper pipes and 2 rows of aluminium fins for heating or reheating only and 4-6 rows for cooling and/or heating with right or left connections to be selected with order. Condensate drain pan in aluminium both for horizontal BA4R and BA6R versions and vertical BAV4R and BAV6R versions.
• SV fan module complete with EC Brushless centrifugal plenum fan with single intake directly coupled to electric motor. Static and dynamic balancing of the entire assembly, built in accordance with standard DIN ISO 1940. G6.3 balancing grade. Standard control of the rotation speed via special 0-10V analogue input. Electrical connection panel fitted as standard complete with disconnect switch, protection fuses and connecting terminal block.

Accessory modules

• PMA - Intake/outlet plenum with pre-cut side outlets.
• SIL - Plenum with absorbent cartridge silencer to be placed on delivery or intake.
• MUV-PRV - Plenum with steam humidifier and external electric generator.
• BE - Additional electrical coil for connection to channel.

Factory fitted accessories
• SG - Optional polypropylene drop separator at low load losses.
• TAG - Optional antifreeze thermostat.

Separately supplied accessories

• KSG - Polypropylene drop separator at low load losses (only for BA).
• KTAG - Antifreeze thermostat (only for BA).
• KSER - Kit in combination with PMA consisting of: damper with aluminium blades and frame, fitted with seal gasket, certified class 2 according to En 1751 for fresh air (max 30%) or recirculated air and a fastening panel to PMA module. The damper is sized for treating up to 100% of the UTNA air capacity and may be positioned at the front, top or bottom of the PMA.
• KMS - Manual control for KSER damper.
• KB2R - Separately supplied additional reheat coil.

Controls

• KPTZ - Rotating potentiometer for wall mounting installation, dedicated to manual fan speed control. The speed of delivery and return fans is calibrated with a single potentiometer.
• KTVDIM - Electronic control panel with display, for semi-recessed wall installation, including ON/OFF button, MODE, 3 Speeds+AUTO, SETPOINT change; auxiliary contacts to control ON/OFF valve in 2-pipe and 4-pipe systems; summer/winter switching; manual/automatic/from contact; continuous/thermostat ventilation; configurable digital inputs (SCR, ECO, SIC, ALARM), weekly time bands management., complete with RS485 resident serial interface (Modbus RTU protocol).
• KRCA1 - Electronic control panel with display, for semi-recessed wall installation, including ON/OFF button, MODE, 2 Speeds, SETPOINT change; summer/winter switching with button or remote digital input; continuous ventilation, weekly time bands management room probe; 3

analogue outputs to control modulating fan, 1 or 2 modulating valves in 2-pipe or 4-pipe systems, modulating damper; 1 auxiliary contact to control on/off electrical resistance (1 stage) in 2-pipe systems + electrical resistance; 2 configurable digital inputs and 2 configurable analogue inputs. Compete with RS485 resident serial interface (Modbus RTU protocol).

Full Controls

• KRFCS - Electrical panel complete with: DDC programmable microprocessor regulator. BMS interfacing Integrated as standard with Modbus RTU protocol, main disconnecting switch, relay to control various users, terminal blocks for quick connection of all machine components, auxiliary circuit supply with suitable transformer 230/12-24V.

USER PANELS (for KRFCS)
• KHMIG -Interface terminal with black monochrome graphic display with LED backlighting.
• KHMIR - Interface terminal complete with integrated room temperature probe with black monochrome graphic display with LED backlighting.
• KTOUCH - Black and white touch screen control panel.
• KCOLOR - Colour touch screen control panel.
• KCW - White decorative plate for control panel.
• KCB - Black decorative plate for control panel.
• KWMS - Wall mounting installation support for control panel.

Valves and actuators
• KV3V - PN40 Mixer/diverter 3-way regulation ball valves, female threaded hydraulic connections.
• KV2V - PN40 2-way regulation ball valves, female threaded hydraulic connections.
• KVMM - Actuator for ball regulation valves with modulating control 0/10 Vdc 24 Vac power supply.
• KV0M - Actuator for 230V On/Off valves.
• KDMA-S - Actuator for modulating damper 0-10V 24V with spring return.
• KDMA - Actuator for modulating damper 0-10V 24V without spring return.
• KDOA - Actuator for ON/OFF damper with spring return.
All the probes, actuators and valves on the Full Control section are also available.

Technical Data

UTNAP MODEL		13	25	35	50	70	90	120
❷ Coil thermal power Only hot	kW	4,9	8,4	11,7	16,8	25,1	32,8	39,1
❶ Cooling capacity	kW	6,4	11,1	14,6	21,3	31,9	45,2	53,6
❷ Heating capacity	kW	7,6	13,6	18,4	26,5	39,7	52,3	64,4
❶ Cooling capacity	kW	8,1	14,9	20,2	27,5	41,2	56,8	68,9
❷ Heating capacity	kW	9,1	16,6	22,8	32,2	48,3	62,1	78,2
❸ Heater power	kW	3	-	-	-	-	-	-
BE electric	kW	-	6	9	13	17	24	24
❹ Air flow rate	m³/h	1300	2500	3500	5000	7500	9000	12000
❹ Useful static head.	Pa	300	300	300	300	300	300	300
❺ Irradiated sound power	dB(A)	47	50	54	54	56	55	59
❺ Intake sound power	dB(A)	64	65	69	68	71	70	74
❺ Delivery sound power	dB(A)	70	71	75	75	78	77	80
❹ SFP Int (Erp 2018<230)	W/m³/s	80	121	137	128	143	101	146
Filtration grade EN779		G4/F7	G4/F7	G4/F7	G4/F7	G4/F7	G4/F7	G4/F7
PRV Maximum steam production	Kg/h	3	5	5	8	10	15	18
Electrical supply	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		13	25	35	50	70	90	120
L - Width	mm	945	1245	1545	1645	1645	2045	2045
H - Height	mm	387	387	387	504	687	837	837
PMA -SIL-MUV-SV- Depth	mm	480	480	480	596	780	931	931
BA - Depth	mm	750	750	750	750	750	750	750
BAV - Height	mm	812	812	862	962	-	-	-
❻ UTNA Weight	kg	53	60	67	88	94	132	142

Data at the following conditions:

❶ Air T in 26°C D.B.; 18.6°C W.B. (50% R.H.); water T in 7°C with Δt 5°C; nominal air flow.

❷ Air T in 20°C D.B.; 13.7°C W.B. (50% R.H.); water T in 40°C with Δt 5°C; nominal air flow.

❸ Air T in 20°C D.B.; 13.7°C W.B. (50% R.H.); nominal air flow.

❹ Air T in 20°C D.B.; 13.7°C W.B. (50% R.H.); nominal air flow; 4-row coil BA/BAV 4R; clean type F7 filter.

❺ Of SV only with work point at nominal air flow; and total head calculated in configuration: 4-row coil BA/BAV 4R; clean type F7 filter; available static 300 Pa. In accordance with EN ISO 11546-2.

❻ SV Weight

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