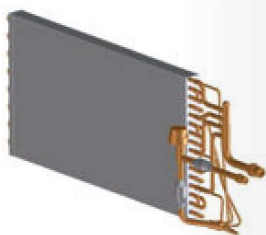




SYSTEM
FREE



DX COIL



PC ARFPE



RAS 2-2.5HVNP1

Functions

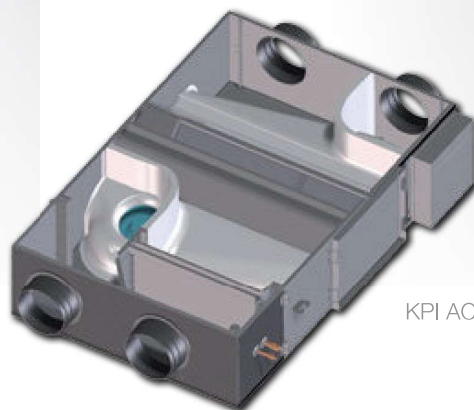
- // The KPI Active uses a double flow exchanger, with direct expansion coil battery which supplements the air temperature entering the building. This is useful when the temperature outside is low and sufficient recovery is not possible
- // The range consists of 3 models: 1.5 / 2 / 2.5HP with respective flows of 500 m³, 800 m³, 1000 m³
- // It can be connected to certain units within the UTOPIA and VRF ranges using a monosplit or direct to the VRF.

Performance

- // Over the entire KPI range high-efficiency filters (F7) are available
- // The same applies to consumption from the motors which has halved with values on the 1000 m³/h model only reaching 285 W
- // The noise level has also been refined, with the lowest value obtained from the 250 model being 27 dB(A)
- // Different static pressures are available in order to meet all the requirements possible.

Safety

- // Possibility of fine tuning the CO₂ level complements these innovations (sensor not included)
- // All insulation in the KPI range is M1 (NF-P92-501) certified to comply with the mandatory fire-retardant standards issued by ErP (Order of 11th December 2009, Article CH36).



KPI ACTIVE

ACTIVE ENERGY RECOVERY

		KPI 502X4E	KPI 802X4E	KPI 1002X4E
	<i>Hp</i>	1.5	2.0	2.5
Nominal Cooling Capacity (Set Free System) ⁽¹⁾	<i>kW</i>	5.3 (1.8)	8.0 (2.9)	10.8 (3.7)
Nominal Heating Capacity (Set Free System) ⁽¹⁾	<i>kW</i>	6.9 (2.1)	9.8 (3.5)	12.9 (4.4)
Air Flow Rate (H/M/L)	<i>m³/h</i>	500 / 430 / 380	800 / 700 / 590	1000 / 820 / 740
External Static Pressure ⁽²⁾ (H/M/L)	<i>Pa</i>	90 / 82 / 60	110 / 80 / 57	170 / 105 / 80
Maximum external pressure (nom. air flow)	<i>Pa</i>	200	110	170
Sound Pressure Level ⁽³⁾ (H/M/L)	<i>dB(A)</i>	32 / 30 / 29	34 / 33 / 32	36 / 33 / 31
Exchanger Material		Air to Air cross flow Celluloid material (Total Energy Exchange)		
Temp Efficiency	%	78	78	83
Enthalpy Efficiency	Heating %	65	65	68
	Cooling %	61	62	62
Dimensions (H x W x D)	<i>mm</i>	330x1435x920	385x1513x1015	385x1904x1295
Weight	<i>kg</i>	62	69	100
Piping diameter (Liquid / Gas)	<i>inch</i>	1/4 / 1/2	1/4 / 5/8	3/8 / 5/8
	<i>mm</i>	6.35 / 12.70	6.35 - 15.88	9.53 - 15.88
Duct Sizes (dia)	<i>mm</i>	200	250	300
Supplied Air Filter Class (EN779) ⁽³⁾		G3	G3	G3
Nominal Power Input (High)	<i>W</i>	130	255	357
Specific Fan Power (High)	<i>W/(m³/s)</i>	644	793	586
Drain Diameter (ext)	<i>mm</i>	φ32	φ32	φ32
Working Range ⁽⁴⁾			-20°C ~ 46°C	
Power Supply			230V / 1Ph / 50Hz	
Recommended Fuse Size	<i>A</i>	5	5	10

If a KPI is operated individually add the PC-ARFPE remote controller to the price.
For details of interlocks with Utopia & Set Free systems contact your local sales office.

(1) Default fan pressure setting

(2) Sound pressure level has been measured in an anechoic chamber, with the measuring point 1.5m below the center of the unit, with no ceiling under the unit and using a sound insulated duct.

(3) Reflected sound must be considered when installing the unit in the field.

(3) High efficiency filter class F7 (EN779) is available as accessory.

(4) The installation of an electric heater is necessary when temperature becomes lower than -5°C (DB).

F7 FILTER	HEF-502	HEF-802	HEF-1002

ATTENUATOR	STL-30-200-L600	STL-30-250-L600	STL-30-300-L600

- /// RAS 2 and 2.5 HVNP connected to KPI 802X3E and 1002X3E by monosplit
- /// The KPI model 502X3E can only be installed in a VRF configuration, as with an indoor unit
- /// KPI models 802X3E and 1002X3E can also be installed on VRF. Once installed on a VRF the maximum output must not exceed 30% of the total output of the unit.



- /// Fresh air feed
- /// Filters both air incoming and outgoing air.
Transfer of heat between the incoming and outgoing air
- /// Transfer of moisture in the outgoing air, which reduces the condensation in the air conditioning units and reduces the cooling demand by up to 20%
- /// This naturally cools the building with minimum fuel consumption during by-pass mode.

- /// The KPI Active is fitted with a celluloid exchanger so that the latent heat is transferred:
 - in cooling mode: the air humidity decreases,
 - in heating mode: the moisture in the fresh air increases.
 This will greatly increase the heat transfer efficiency and comfort.
- /// The battery complements and warms the air to ensure the air approaches a comfortable temperature.