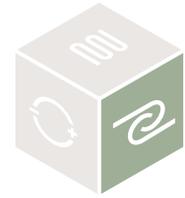


UTair HRI500/HRI600



Air treatment system able to renew exhaust air

Horizontal dehumidifier for ceiling application complete with heat recovery cross counter flow able to recover over 90% of the extracted air from bathrooms or from the other rooms in renewal function. The bypass damper enables the FreeCooling when the external conditions are very good and the integration function ensures a supply of sensible

heat as an alternative to the neutral dehumidification with the possibilities of managing both the flow and the temperature of air inlet. The fans are EC high efficiency and a compensation software ensures a constant flow rate even in the presence of complicated ducts or filtering sections in progressive clogging.



The unit is equipped with bypass damper according to the new EC regulations 1253/2014 and 1254/2014 with effect from 01/01/2016.

renew

When the quality of the air falls below the level of comfort the function renewal is activated. In this case the air drawn into the rooms comes partly or totally from outside. To reduce the energy required to bring the temperature of the outside air to the desired conditions, a high efficiency heat exchanger with cross counter flows is used; it is able to pre-treat and reduce the thermal difference of the renewed air exploiting the energy of the renewal air. A second fan provides to expel the foul and energetically exhausted air to the output of the heat recovery unit.

recirculation

It is also possible to use the machine only for the movement of the air within the rooms disabling the extraction and switching the bypass damper, creating a passage between the recovery circuit and the discharge one: this function is particularly useful when you simply want to standardize thermo-hygrometric conditions in all environments, compensating any difference created by solar gains or otherwise. Equally valid is the dehumidification in recirculation when the outside air conditions are particularly bad and the indoor latent load is very high.

freecooling

The Free Cooling accessory function allows the air taken from outside to bypass the heat recovery if it has definitely better characteristics when compared to the internal conditions of the environment, minimizing the costs of ventilation: we can compare this situation to the opening of windows in a beautiful spring day.



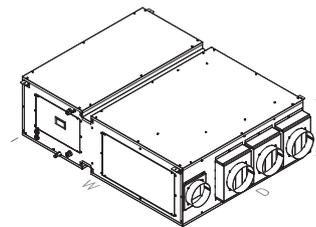
technical specifications

	UTair HRI500	UTair HRI600	
features	nominal air flow	250 ÷ 600 m ³ /h	300 ÷ 800 m ³ /h
	air flow extraction/renewal	100 ÷ 450 m ³ /h	100 ÷ 450 m ³ /h
	highest available pressure (250 m ³ /h)	480 Pa	560 Pa
	highest available pressure (500 m ³ /h)	360 Pa	520 Pa
	highest available pressure (600 m ³ /h)	-	500 Pa
	highest available pressure in extraction (400 m ³ /h)	380 Pa	380 Pa
	nominal efficiency (350 m ³ /h)	90 %	90 %
	nominal efficiency (200 m ³ /h)	94 %	94 %
	condensed humidity *	62 l/day	75 l/day
	moisture produced *	12 l/day	12 l/day
	electrical power absorbed up to speed *	680 W	710 W
	maximum absorbed electrical power *	820 W	900 W
	water coil cooling capacity *	2 kW	2.3 kW
	maximun water coil capacity (H ₂ O = 7 °C)	2.5 kW	2.8 kW
	sensible absorbed cooling capacity *	2.6 kW	3.2 kW
	sensible integration absorbed cooling capacity (H ₂ O = 7 °C)	3.8 kW	4.4 kW
	water flow (15°C)	400 l/h	400 l/h
	water flow (7°C) (dehumidification)	150 l/h	170 l/h
	water flow (7°C) (integration)	400 l/h	400 l/h
	water pressure drop	15 kPa	15 kPa
	sound pressure level	38 dB(A) at 1 m	39 dB(A) at 1 m
	fans	constant flow EC fans	constant flow EC fans
	refrigerant gas R410a	500 gr	500 gr
	power supply (Vac / Ph / Hz)	230 / 1 / 50	230 / 1 / 50
	user / installation manual		

dimensions and weight

dimensions (W x H x D)
1365 x 380 x 900 mm

weight
90 kg (HRI500)
95 kg (HRI600)



notes

* at the following conditions:
enviroment return air temperature: 26°C - 65% R.H.
water coil supply temperature: 15°C