



Heat pump connected on hydraulic cycle type WPH

Mono-block air/water inverter heat pump for duct mounting for cooling or heating of rooms such as commercial spaces, offices, hotels, where the energy is delivered by a hydraulic cycle that is connected to the existing infrastructure, with a capacity from 5 to 30kw in cooling and from 5.8 to 38Kw in heating.

Application

Designed to be installed in false ceilings that are destined to this purpose or in technical rooms. The unit provides a perfect air distribution through the ventilation network.

Technical data						
HRW			HRW 019	HRW 027	HRW 030	HRW 036
Power	Total cooling capacity (1)	[W]	5278	7419	8691	10138
	Sensible cooling capacity (1)	[W]	4257	5824	6315	7278
	Heating capacity (2)	[W]	5826	8342	9759	11036
Ventilation	Nominal airflow (3)	[m ³ /h]	1250	1185	1490	1580
	Power engine	[W]	145	145	210	245
	Ventilation rates	[Nbr]	3	3	3	3
	Air filter - Number/Efficiency		2/G2	2/G2	2/G2	G2
	Air filter - Dimensions/Thickness	[mm]	365x300/25	385x350/25	385x350/25	385x350/26
	Nominal water flow rate	[l/s]	0,26	0,43	0,49	0,56
Hydraulic circuit	Pressure loss at nominal flow (1)	[kPa]	13	17	23	25
	Hydraulic connection E/S		ISO G3/4" INT	ISO G3/4" INT	ISO G3/4" INT	ISO G 3/4" INT G 1" 1/4M
	Moisture drain Ø ext	[mm]	19	19	19	19
Cooling circuit	Amount of refrigerant R407C	[g]	1160	1300	1594	1950
	Compressor	[type]	Roterend	Scroll	Scroll	Scroll
Dimensions and weight	Length	[mm]	900	1050	1050	1050
	Width	[mm]	600	660	660	660
	Height	[mm]	439	400	460	460
	Weight in operation	[kg]	80	100	109	112
	Absorbed power in cooling (4)	[W]	1557	2118	2658	3044
Electrical characteristics	Absorbed power in heating (4)	[W]	1611	2332	2983	3460
	Electric battery - Number/Power (5)	[W]	2/1500+750	1/3750	1/3750	1/4500
	Power consumption in electric heating	[W]	2250	3750	3750	4500
	Electric power supply		220V/1Ph	400V/3Ph/50Hz	400V/3Ph/50Hz	400V/3Ph/50Hz
	Maximum current fan	[A]	1,50	1,50	2,60	2,40
	Nominal current compressor (6)	[A]	6,60	3,70	4,50	5,40
	Starting current compressor (7)	[A]	33	32	40	46

HRW			HRW 042	HRW 048	HRW 060	
Power	Total cooling capacity (1)	[W]	11366	12965	14344	
	Sensible cooling capacity (1)	[W]	8849	10051	10988	
	Heating capacity (2)	[W]	14422	14904	16147	
Ventilation	Nominal airflow (3)	[m3/h]	2040	2750	2840	
	Power engine	[W]	320	550	550	
	Ventilation rates	[Nbr]	3	3	3	
	Air filter - Number/Efficiency		2/G2 2	2/G2 2	2/G2 2	
	Air filter - Dimensions/Thickness	[mm]	450x440/25	450x440/25	450x440/25	
Hydraulic circuit	Nominal water flow rate	[l/s]	0,72	0,78	0,93	
	Pressure loss at nominal flow (1)	[kPa]	33	34	40	
	Hydraulic connection E/S		ISO G 3/4" INT	ISO G 3/4" INT	ISO G 3/4" INT	
	Moisture drain Ø ext	[mm]	19	19	19	
Cooling circuit	Amount of refrigerant R407C	[g]	2100	2150	2200	
	Compressor	[type]	Scroll	Scroll	Scroll	
Dimensions and weight	Length	[mm]	1250	1250	1250	
	Width	[mm]	705	705	705	
	Height	[mm]	513	513	513	
	Weight in operation	[kg]	133	140	144	
	Absorbed power in cooling (4)	[W]	3584	4200	4989	
Electrical characteristics	Absorbed power in heating (4)	[W]	3920	4300	5150	
	Electric battery - Number/Power (5)	[W]	5500-01-01T00:00:00.000	1/6500	1/7500	
	Power consumption in electric heating	[W]	5500	6500	7500	
	Electric power supply		400V/3Ph/50Hz	400V/3Ph/50Hz	400V/3Ph/50Hz	
	Maximum current fan	[A]	3,60	4,70	4,70	
	Nominal current compressor (6)	[A]	5,70	7	7,50	
	Starting current compressor (7)	[A]	51,50	54	65,50	
HRW			HRW 072	HRW 096	HRW 120	
Power	Total cooling capacity (1)	[W]	17174	21743	29951	
	Sensible cooling capacity (1)	[W]	13536	17986	24413	
	Heating capacity (2)	[W]	21500	26637	38109	
Ventilation	Nominal airflow (3)	[m3/h]	3570	4700	5600	
	Power engine	[W]	550	1100	1500	
	Ventilation rates	[Nbr]	3	-	-	
	Air filter - Number/Efficiency		2/G2	2/G2	2/G2	
	Air filter - Dimensions/Thickness	[mm]	450x440/25	620x650x25	620x650x25	
Hydraulic circuit	Nominal water flow rate	[l/s]	1,09	1,35	1,78	
	Pressure loss at nominal flow (1)	[kPa]	61	55	114	
	Hydraulic connection E/S		ISO G 3/4" INT	ISO G1" 1/4"	ISO G1" 1/4"	
	Moisture drain Ø ext	[mm]	3/4"	7/8"	7/8"	
Cooling circuit	Amount of refrigerant R407C	[g]	3200	5100	5100	
	Compressor	[type]	Scroll	Scroll	Scroll	
Dimensions and weight	Length	[mm]	1250	1680	1680	
	Width	[mm]	705	955	955	
	Height	[mm]	513	770	770	
	Weight in operation	[kg]	149	253	262	
	Absorbed power in cooling (4)	[W]	6280	6317	8547	
Electrical characteristics	Absorbed power in heating (4)	[W]	7347	7895	10224	
	Electric battery - Number/Power (5)	[W]	1/9000	1/13000	1/16000	
	Electric power supply		400V/3Ph/50Hz	400V/3Ph/50Hz	400V/3Ph/50Hz	
	Starting current compressor (7)	[A]	101	111	118	

(1) Nominal cooling capacity based on a temperature of the supply air of 27°C dry bulb, 19°C wet bulb, with a water supply temperature of 30°C.

(2) Nominal heating power based on supply air temperature of 20°C dry bulb, 15°C wet bulb, with a water supply temperature of 20°C.

(3) Air flow and static pressure at the nominal point are shown for the high fan speed.

(4) Electrical power consumption at nominal values of compressor and fan.

(5) Heating by electric battery available as an option for SH & RH versions.

(6) The nominal currents are shown with a tolerance of +/- 5%.

(7) The starting currents are given with a tolerance of +/- 10%.