



Enhanced Energy efficiency year round

Dry evaporator with minimum refrigerant charge

Ideal for Green building design

Perfect in Industrial applications



SCREWLINE WDH-HE

Water source liquid chillers for high efficiency year round. Dry evaporator technology with minimum refrigerant charge for safe operation and reduced carbon footprint



WDH-HE 2.220 - 2.600

Water source liquid chillers for indoor installation. Screw compressors with R134a refrigerant.



HIGH EFFICIENCY, VALUE ADDED State-of-the-art technology increases both full load and year round efficiency by more than 12% over A-Class liquid chillers. It results in a further reduction of the energy requested to operate the building, thus increasing its real estate value.



PERFECT FOR GREEN BUILDINGS Top efficiency figures match with demanding protocols such as ECBC and LEED certification requirements. The refrigerant is zero-ODP. Furthermore, its quantity is much smaller than most of the market chillers can do, such as flooded evaporator models, thus further increasing the relevant design credits.



RELIABLE TECHNOLOGY Excellent energy figures originate from high performance double screw compressor complete with economizer, electronic thermostatic valve, the innovative shell & tube heat exchanger technology, optimised for operation with R134a. Two compressors design also allows partial inbuilt redundancy, higher flexibility and lower starting current.

HIGHLY VERSATILE APPLICATION Suitable for all terminal types, from fan coil units to radiant systems and chilled beams, WDH-HE is also available for low temperature supply (Brine) in high dehumidification or industrial process applications. On the source side, it can easily benefit from tower, dry cooler or well water plant design.

Technical Data

Sizes		2.220	2.230	2.240	2.260	2.280	2.300	2.320	2.340	2.360	2.440	2.480	2.540	2.600
Compressors / Cooling circuits	no.	2 / 2												
Dimensions (length x depth x height)	mm	4750 x 1410 x 2000			4850 x 1410 x 2100				4900 x 1560 x 2400		4900 x 1560 x 2450			
Standard power supply		400 / 3 / 50												
EUROVENT REFERENCE CONDITIONS														
Cooling capacity	(1) kW	633	677	730	782	829	901	976	1045	1108	1226	1391	1549	1711
EER EUROVENT		5,60	5,60	5,62	5,63	5,60	5,60	5,61	5,68	5,68	5,68	5,70	5,69	5,70
ESEER		6,61	6,66	6,63	6,69	6,67	6,66	6,62	6,64	6,65	6,64	6,67	6,61	6,67
Evaporator liquid flow	(1) l/s	30,2	32,3	34,9	37,4	39,6	43,0	46,6	49,9	52,9	58,6	66,5	74,0	81,7
Evaporator pressure drop	kPa	44	50	57	46	51	37	42	52	54	35	26	32	38
Condenser liquid flow	(1) l/s	35,6	38,1	41,0	43,9	46,6	50,7	54,9	58,7	62,2	68,8	78,1	87,0	96,0
Condenser pressure drop	kPa	55	56	57	56	54	51	51	53	55	56	56	56	48
ARI REFERENCE CONDITIONS														
Cooling capacity	(2) kW	630	673	726	778	825	895	969	1039	1104	1220	1385	1542	1704
COP (ARI)		5,68	5,66	5,67	5,68	5,65	5,66	5,67	5,80	5,81	5,81	5,82	5,80	5,82
IPLV		6,87	6,92	6,82	6,96	6,93	6,86	6,82	6,91	6,91	6,91	6,87	6,80	6,81

Data referred to the following conditions:

(1) Internal exchanger water 12/7°C; External exchanger water 30/35°C

(2) Internal exchanger water 11.7/6.7°C; External exchanger water 29.4/34.4°C

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