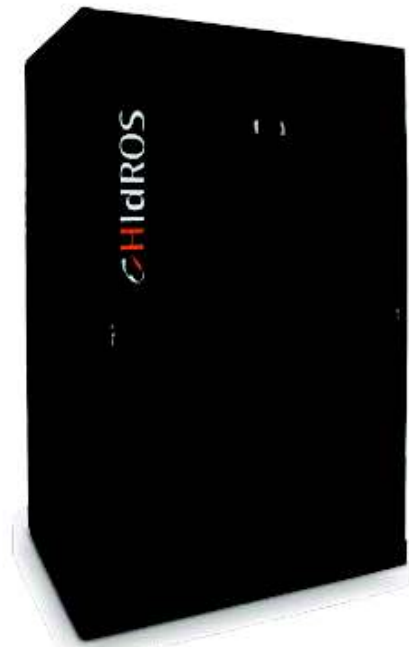


## DXW

### Direct expansion water condensation



DXW

The air conditioners belonging to the DXW series direct expansion air condensation, have been specifically designed and manufactured for close control air conditioning where the handling of almost exclusively sensible heat loads is a fundamental requirement and where is not present a central chilled water plant.

The typical applications are high-performance computer rooms, internet data center, digital telephone exchanges, switch rooms, weather stations, medical laboratories, archives, museums as well as any other application both of small or large dimension, where the sensible heat load must be dissipated and is possible also regulate ambient humidity (optional).

The sizing of EC fans, Electronically Commutated the latest "Plug-In" and the exchange surfaces, allows the containment of emissions noise and electronic. The units are designed to present the smallest footprint possible, reducing the cost of the occupied floor space, and full frontal access for easy inspection and service.

The DXA units have compressor on board; the heat from the technical room is dissipated by an external finned coil condenser, connected during installation. In comparison to DXA set-up, these units have the advantage that the refrigerant circuit is realized in factory and pre-charged with refrigerant, not needing the laying of refrigerant lines.

### VERSIONS

- **C00:** Only Cooling, base version, only cooling coil without humidification and dehumidification.
- **C0D:** Cooling and Dehumidification with electrical heater post heating, no humidification.
- **CH0:** Cooling and Humidification by non-pressurised steam humidifier by means of electrodes immersed.
- **CHD:** Cooling/Humidification/Dehumidification with electrical heater post heating, and non-pressurised steam humidifier by means of electrodes immersed .

Model		061	071	091	111	141	161	191	211	261	321	401	501
Total cooling capacity <sup>(1)</sup>	kW	6,4	7,5	9,3	11,6	14,7	16,5	19,6	22,5	25,8	33,8	37,5	45,6
Sensible cooling capacity <sup>(1)</sup>	kW	5,6	7,2	8,1	9,6	11,7	14,2	16,6	19,0	21,3	28,1	30,8	37,7
SHR		0,87	0,96	0,87	0,83	0,79	0,86	0,85	0,84	0,83	0,83	0,82	0,83
Max power input compressor	kW	1,8	2,1	2,6	2,9	3,8	3,9	4,6	5,4	6,0	8,0	8,8	10,0
Nominal air flow	m <sup>3</sup> /h	1800	2050	2600	2800	3300	4500	4700	5400	6100	8500	8300	11300
Fans	n°xkW	1x0,13	1x0,16	1x0,26	1x0,32	1x0,23	1x0,33	1x0,41	1x0,70	1x0,68	1x1,48	2x0,42	2x0,70
Nominal pressure drop	Pa	140	140	110	90	250	250	250	250	250	250	250	250
Type of compressor		Rotative					Hermetic scroll						
N. compressors / N. Circuit		1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Power supply		230V/1N/50Hz			400/3N/50	400V/3/50Hz							
Max power input	A	10,4	13,4	16,2	7,9	9,7	10,1	15,0	15,0	16,0	22,0	25,0	31,0
Max current input	A	43,0	62,0	64,0	48,0	63,0	63,0	75,0	101,0	95,0	118,0	118,0	140,0
Humidifier nominal capacity <sup>(2)</sup>	kg/h	1,5	1,5	3	3	5	5	5	5	5	5	5	5
Heat capacity of electrical heaters	kW	1,5	1,5	1,5	1,5	5,0	5,0	5,0	5,0	5,0	5,0	10,0	10,0
Water flow <sup>(3)</sup>	m <sup>3</sup> /h	1,45	1,57	1,91	2,49	3,14	3,44	4,26	4,88	5,39	7,20	8,13	9,40
Condenser pressure drop <sup>(3)</sup>	kPa	31	36	26	45	43	51	31	42	51	51	46	45
SPL indoor unit "Under" <sup>(4)</sup>	dB(A)	54	57	62	64	50	56	57	59	62	68	57	60
SPL indoor unit "Over" <sup>(4)</sup>	dB(A)	57	60	65	67	52	59	60	62	65	72	60	63

DXW

Model		262	322	402	452	482	582	652	752	902	1002
Total cooling capacity <sup>(1)</sup>	kW	30,5	33,1	39,3	46,0	50,0	57,7	67,0	75,0	89,6	99,4
Sensible cooling capacity <sup>(1)</sup>	kW	25,5	28,7	32,6	39,4	42,0	49,0	56,2	63,2	74,0	81,4
SHR		0,84	0,87	0,83	0,86	0,84	0,85	0,84	0,84	0,83	0,82
Max power input compressor	kW	7,5	7,6	9,2	10,8	11,9	13,9	16,0	17,6	19,9	23,0
Nominal air flow	m <sup>3</sup> /h	7200	8200	8900	11500	11900	14500	16100	17300	21100	22000
Fans	n°xkW	1x0,91	1x1,32	2x0,31	2x0,74	2x0,86	2x1,01	2x1,41	2x1,23	3x1,06	3x1,22
Nominal pressure drop	Pa	250	250	250	250	250	250	250	250	250	250
Type of compressor		Hermetic scroll									
N. compressors / N. Circuit		2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
Power supply		400V/3/50Hz									
Max power input	A	20,6	23,6	30,0	30,0	32,0	42,0	44,0	50,0	62,0	68,0
Max current input	A	103,0	128,0	150,0	202,0	190,0	222,0	236,0	236,0	280,0	348,0
Humidifier nominal capacity <sup>(2)</sup>	kg/h	5	5	5	5	8	8	8	8	8	8
Heat capacity of electrical heaters	kW	5,0	5,0	10,0	10,0	10,0	10,0	10,0	15,0	15,0	15,0
Water flow <sup>(3)</sup>	m <sup>3</sup> /h	6,62	7,10	8,51	9,90	10,69	2x6,16	2x7,13	2x7,6	2x8,18	2x10,60
Condenser pressure drop <sup>(3)</sup>	kPa	43	50	50	50	46	2x37	2x35	2x46	2x44	2x45
SPL indoor unit "Under" <sup>(4)</sup>	dB(A)	66	68	58	64	65	69	71	72	72	73
SPL indoor unit "Over" <sup>(4)</sup>	dB(A)	69	71	61	67	68	72	74	75	75	76

Performance refer to the following conditions:

(1) 24°C db; 17,1°C wb; 50% R.H. - 45°C condensing

(2) When water conductivity is between 350-750 uS/cm<sup>3</sup>

(3) Sound pressure level at 1 mt in free field

(4) Sound pressure level at 10 mt in free field (EN13487)