

**SPECIFICATION FOR HWDX 040 - 255  
WATER COOLED CHILLER**

MODEL		HWDX-40S	HWDX-50S	HWDX-60S	HWDX-70S	HWDX-100S	HWDX-125S	HWDX-150S	HWDX-185S
Cooling Capacity	Tons	44.4	50.1	62.9	79	108.9	136.8	162.2	194.2
Power Input	kW	38.5	42.9	56.9	64.1	90	110.3	128.7	156
	kW/ton	0.87	0.86	0.9	0.81	0.83	0.81	0.79	0.8
<b>CASING MATERIAL AND SIZE</b>									
Casing	Material	Electro Galvanized Mild Steel							
	Finishing	Epoxy Polyester Powder Coating							
	Insulation	Polyethylenen Foam							
Dimension	Height (mm)	1473	1524	1575	1829	1981	1981	2108	2210
	Width (mm)	635	660	660	864	1016	1016	1067	1067
	Depth (mm)	2235	2235	2540	2540	2540	2540	2540	2540
Unit Weight	Nett (kg)	921	1104	1233	1426	1876	1971	2329	2652
	Operating (kg)	1014	1221	1379	1604	2105	2223	2642	3047
Refrigerant charge	(kg)	40	50	60	70	100	125	150	185
<b>COMPRESSOR</b>									
Model		RC2-170B	RC2-200B	RC2-260B	RC2-300B	RC2-410B	RC2-510B	RC2-580B	RC2-710B
Quantity		1	1	1	1	1	1	1	1
Speed	(rpm)	2900	2900	2900	2900	2900	2900	2900	2900
Oil Charged per compressor	Litre	7	8	14	16	15	20	20	28
<b>EVAPORATOR</b>									
Water flow rate	gpm	98.4	120.72	124.03	170.7	252.77	319.08	381.38	466.79
Water pressure drop	ftwg	8.2	10	10.6	12	12.8	13.1	13.8	15.6
Water in / out Connection Size	in	3	3	4	4	5	5	6	6
<b>WATER-COOLED CONDENSOR</b>									
Water flow rate	gpm	124.7	150.0	187.2	214.9	314.9	395.2	470.1	574.5
Water pressure drop	ftwg	7.9	11.3	7.7	10.0	10.8	16.3	14.6	11.9
Water in / out Connection Size	in	4	4	4	4	5	6	6	6
<b>ELECTRICAL DATA @ 400V / 3PH /50Hz</b>									
Start-up Method		Star-Delta	Star-Delta	Star-Delta	Star-Delta	Star-Delta	Star-Delta	Star-Delta	Star-Delta
Refrigerant charge	LRA	83.5	93.6	123.2	138.8	118.8	237.9	275.7	332.9
Each Compressor Nomnal Runing Current	Amp	64.6	72.8	93.4	113	147.5	183.7	211.6	254.6
Total Compressor Nominal Running Current	Amp	64.6	72.8	93.4	113	147.5	183.7	211.6	254.6

**Note:**

- All performance data are based on the following:
- Evaporator in 12.2°C, out 6.7°C; Medium : water
  - Condenser in 30°C, Out 35°C; Medium: water
  - Refrigerant-R22
  - Evaporator fouling factor of 0.000018m<sup>2</sup> °C/W
  - Condenser fouling factor of 0.000044m<sup>2</sup> °C/W

**SPECIFICATION FOR HWDX 040 - 255  
WATER COOLED CHILLER**

MODEL		HWDX-185S	HWDX-230S	HWDX-80D	HWDX-95D	HWDX-120D	HWDX-135D	HWDX-200D	HWDX-255D
Cooling Capacity	Tons	194.2	259.3	88.7	95.1	125.8	158.1	217.8	273.6
Power Input	kW	156	202.7	77	78.2	106	128.2	180	220.6
	kW/ton	0.8	0.78	0.87	0.85	0.84	0.81	0.83	0.81
<b>CASING MATERIAL AND SIZE</b>									
Casing	Material	Electro Galvanized Mild Steel							
	Finishing	Epoxy Polyester Powder Coating							
	Insulation	Polyethylenen Foam							
Dimension	Height (mm)	2210	2286	1575	1651	1702	1880	2184	2286
	Width (mm)	1067	1118	762	813	813	914	1321	1321
	Depth (mm)	2540	2540	1575	3606	3606	3606	3606	3606
Unit Weight	Nett (kg)	2652	3118	1849	2178	2328	2636	3723	4243
	Operating (kg)	3047	3660	2055	2435	2632	2934	4193	4835
Refrigerant charge	(kg)	185	230	80	95	120	135	200	255
<b>COMPRESSOR</b>									
Model		RC2-710B	RC2-930B	RC2-170B	RC2-180B	RC2-230B	RC2-300B	RC2-410B	RC2-510B
Quantity		1	1	2	2	2	2	2	2
Speed	(rpm)	2900	2900	2900	2900	2900	2900	2900	2900
Oil Charged per compressor	Litre	28	28	7	7	14	16	15	20
<b>EVAPORATOR</b>									
Water flow rate	gpm	466.79	580.03	195.8	229.3	281.78	341.35	505.58	638.42
Water pressure drop	ftwg	15.6	18.9	12.2	10.7	13.4	14.9	18.1	17.8
Water in / out Connection Size	in	6	6	4	5	5	6	6	8
<b>WATER-COOLED CONDENSOR</b>									
Water flow rate	gpm	574.5	719.8	248.9	283.3	354.81	429.72	629.71	790.62
Water pressure drop	ftwg	11.9	11.4	16.7	23.9	18.6	23.9	17.2	17.1
Water in / out Connection Size	in	6	6	5	5	6	6	8	8
<b>ELECTRICAL DATA @ 400V / 3PH /50Hz</b>									
Start-up Method		Star-Delta	Star-Delta	Star-Delta	Star-Delta	Star-Delta	Star-Delta	Star-Delta	Star-Delta
Refrigerant charge	LRA	332.9	428.6	83.5	86	115.1	138.8	192.9	237.9
Each Compressor Nomnal Runing Current	Amp	254.6	330.3	64.6	67.2	93.4	113	155.2	193.3
Total Compressor Nominal Running Current	Amp	254.6	330.3	129.2	134.4	186.8	226	310.4	386.6

**Note:**

- All performance data are based on the following:
- Evaporator in 12.2°C, out 6.7°C; Medium : water
  - Condenser in 30°C, Out 35°C; Medium: water
  - Refrigerant-R22
  - Evaporator fouling factor of 0.000018m<sup>2</sup> °C/W
  - Condenser fouling factor of 0.000044m<sup>2</sup> °C/W