

TECHNICAL DATA.

An overview of our type designation code and the technical data, performance data and dimensions of our turbo compressor with air and water cooled models.

Type designation code.			
W	Chiller type	A	Air-cooled
		S	Split/external capacitor
		W	Water-cooled/43 °C max. cond.
		X	Water-cooled/52 °C max.
		B	Water-cooled/> 600 KW
025	Cooling capacity	KW divided by 10, for example 025 = 250 KW	
1	Number of compressors	1 to 7	
C	Compressor type	C	TT300
		F	TT400 derated
		G	TT400
		J	TT300/low temperature compressor
L	Vaporiser	L	low volume current
		H	high volume current
L	Liquefier	L	lower volume current
		H	higher volume current
		R	collector at split machine
		2 to 8	number of ventilator pairs (only air-cooled)

Figure 18:
Type designation code for the QUANTUM model series. Blue column contains sample code, to the right are the options.

Compressor data.													
Compressor type	Capacity in KW	Operation conditions							environment				
		3 °C min. vaporisation	-8 °C min. vaporisation	19 °C max. vaporisation	1,5 min. compression ratio	~20 °C min. condensation	40 °C max. condensation	53 °C max. condensation	Start up bypass to compression ratio 2.3	max. current consumption in A	max. motor capacity in KW	min. environment temperature in °C	max. environment temperature in °C
C	300	•		•	•	•		•	•	135	85	-1	50
J	250		•	•	•				•	135	85	-1	50
F	450	•		•	•	•			•	130	80	-1	50
G	500	•		•	•	•			•	160	100	-1	50

Type ¹	water-cooled		Capacity in KW	Compressor number	Ventilator number	Compressor type			max. warm medium outlet		min. cold medium outlet		max. current consumption	
	•	•				C	J	F/G	38°C	50°C	-5°C ²	4°C		
														air-cooled
W 025	•		250	1		•			•			•	85	
W 045	•		450	1					•				•	128
W 050	•		500	2		•			•				•	165
W 055	•		500	1					•				•	185
W 090	•		900	2					•				•	255
W 110	•		1,000	2					•				•	323
W 135	•		1,350	3					•				•	380
W 165	•		1,500	3					•				•	485
W 180	•		1,800	4					•				•	505
W 220	•		2,000	4					•				•	725
W 275	•		2,300	5					•				•	805
X 030	•		300	1		•	•		•		•	•		140
X 060	•		600	2		•	•		•		•	•		275
B 090	•		900	3		•	•		•		•	•		410
B 120	•		1,200	4		•	•		•		•	•		545
B 150	•		1,500	5		•	•		•		•	•		680
B 180	•		1,800	6		•	•		•		•	•		815
B 210	•		2,100	7		•	•		•		•	•		950
A 030		•	250	1	4	•							•	180
A 030		•	250	1	6	•							•	190
A 060		•	500	2	6	•							•	300
A 060		•	500	2	8	•							•	330
A 090		•	750	3	10	•							•	475
A 090		•	750	3	12	•							•	480
A 120		•	1,000	4	14	•							•	625
A 120		•	1,000	4	16	•							•	635

¹ The technical data and specifications are to be solely used as customer information. Printing mistakes and technical alterations are subject to change.

² Maximal warm medium outlet: 38 °C.

³ Performance data at 12/7 °C and 30/35 °C according to ARI550/590. Circa Data. air-cooled at 35 °C outdoor temperature according to ARI550/590.

Cooling capacity in KW

Performance Data³

	100 %	75 %	50 %	25 %	ESEER
265	5.2	6.8	8.8	-	-
420	5.6	7.2	9.4	-	-
530	5.2	6.8	8.8	12.6	9.26
500	5.3	7.2	9.7	-	-
840	5.6	7.2	9.4	13.4	9.85
1,000	5.2	7.1	9.6	13.4	9.91
1,265	5.6	7.2	9.4	13.0	9.75
1,505	5.2	7.1	9.6	13.2	9.88
1,690	5.6	7.2	9.4	12.8	9.69
2,010	5.2	7.1	9.6	12.7	9.71
2,510	5.2	7.1	9.6	12.9	9.77

300	4.9	6.6	8.8	-	-
555	5.1	6.7	8.8	12.6	9.24
890	5.1	6.8	9.0	10.9	8.85
1,265	4.9	6.7	9.0	12.4	9.24
1,410	5.1	6.8	8.8	12.1	9.12
1,700	5.2	6.8	8.9	12.5	9.31
2,015	5.1	6.8	8.9	12.2	9.19

250	2.9	3.8	4.8	-	3.02
290	3.0	4.0	5.0	-	3.16
480	2.6	3.6	4.7	6.4	4.86
525	2.9	3.9	4.9	6.7	5.08
750	2.8	3.7	4.7	6.3	4.85
795	2.9	3.9	4.9	6.5	5.04
1,015	2.8	3.8	4.8	6.7	5.02
1,055	2.9	3.9	4.9	6.4	5.00

Length in mm

Width in mm

Height in mm

Weight in kg

Refrigerant amount

2,620	990	1,947	2,040	120
3,570	990	1,930	2,510	145
3,681	1,130	1,992	3,080	165
3,590	1,115	2,135	3,315	165
4,630	1,474	2,180	4,380	290
4,700	1,474	2,240	4,770	315
5,160	1,474	2,376	5,960	375
5,150	2,003	1,930	6,925	400
5,200	2,100	2,050	7,650	480
5,266	2,171	2,161	8,865	640
5,700	2,200	1,900	10,380	800

2,600	990	1,950	2,050	120
3,700	1,130	2,000	3,015	160
4,270	1,461	2,400	4,695	220
4,270	2,210	2,050	5,865	300
4,720	2,137	2,200	7,705	550
5,720	2,069	2,200	8,525	650
5,720	2,305	2,200	9,055	750

3,250	2,385	2,350	4,035	130
4,250	2,385	2,350	4,520	155
5,050	2,385	2,350	3,900	190
5,500	2,385	2,350	5,630	215
7,800	2,385	2,350	7,530	350
8,200	2,385	2,350	8,020	370
9,500	2,385	2,350	8,845	530
10,500	2,385	2,350	9,380	570