



## QVANTUM VS – TECHNICAL DATA

Specification		Q32VS	Q48VS	Q65VS
<b>Heating capacity according to EN14511</b>				
Heating capacity (Max @ 0°C/45°C)*	kW	15,5	23,3	31,7
Heating capacity (Max @ 0°C/45°C)**	kW	26,6	39,8	51,9
Heating capacity (Min @ 0°C/45°C)*	kW	5,2	7,0	9,9
Heating capacity (Min @ 0°C/45°C)**	kW	9,0	12,3	16,4
COP 0°C/35°C	-	-	-	-
COP 0°C/45°C	-	-	-	-
SCOP average climate, 35°C/55°C		3,86/3,33	3,87/3,24	3,79/3,24
SCOP colder climate, 35°C/55°C		3,97/3,43	3,97/3,36	3,86/3,35
<b>Energy efficiency class</b>				
Energy efficiency class, space heating, 35°C/55°C		A++ / A++	A++ / A+	A++ / A+
<b>Condensor</b>				
Condensor flow rate ( $\Delta T=10K$ , 0°C/45°C)*	l/s	0,37	0,56	0,76
Condensor flow rate ( $\Delta T=10K$ , 0°C/45°C)**	l/s	0,64	0,95	1,24
Pressure drop condensor*	kPa	7,0	8,0	8,0
Pressure drop condensor**	kPa	9,0	10,0	10,0
Max operating temperature*	°C	65,0	65,0	65,0
Max operating temperature**	°C	55,0	55,0	55,0
Temperature difference (Min/Max)	K	3 / 10	3 / 10	3 / 10
Connection size condensor	mm	Cu35.0	Cu35.0	Cu42.0
<b>Evaporator</b>				
Evaporator rate ( $\Delta T=5K$ , 0°C/45°C)*	l/s	0,55	0,81	1,11
Evaporator rate ( $\Delta T=5K$ , 0°C/45°C)**	l/s	0,94	1,41	1,82
Pressure drop evaporator*	kPa	25,0	31,0	27,0
Pressure drop evaporator**	kPa	26,0	32,0	26,0
Temperature evaporator inlet (Min/Max)*	°C	-	-	-
Temperature difference (Min/Max)	K	2 / 5	1,5 / 5	1,5 / 5
Connection size evaporator	mm	Cu35.0	Cu35.0	Cu42.0
<b>Dimensions</b>				
Weight	kg	182	207	282
Length	mm	1 200	1 200	1 200
Width	mm	640	640	640
Height	mm	1 665	1 665	1 665
<b>Compressor</b>				
		Fully hermetic piston		
No. compressors	pcs	1	1	1
No. refrigerant circuits	pcs	1	1	1
<b>Refrigerant</b>				
		R-134a or R-407C		
Amount of refrigerant	kg	2,8	3,5	5,5
GWP (AR5)*		1 300	1 300	1 300
GWP (AR5)**		1 624	1 624	1 624
CO <sub>2</sub> (e)*	tons	3,64	4,55	7,15
CO <sub>2</sub> (e)**	tons	4,55	5,68	8,93
<b>Sound levels</b>				
Sound power level (L <sub>WA</sub> ) according to EN12102	dB(A)	54	57	63
<b>Power supply</b>				
Nominal voltage	V-ph-Hz	400-3-50	400-3-50	400-3-50
f <sub>max/min</sub>	Hz	85 / 30	90 / 30	90 / 30
Frequency converter		Air cooled	Air cooled	Air cooled
<b>Electric power</b>				
Maximum electric power	kW	14	21	30
<b>Electric consumption</b>				
Maximum electric consumption*	A	23,2	30,5	40,8
Maximum electric consumption**	A	29,0	38,1	51,0
Recommended fuse*	A	25	35	50
Recommended fuse**	A	35	50	63
<b>Appearance</b>				
Color side plates		White	White	White
Color stand		Galvanized	Galvanized	Galvanized

\*Refrigerant: R-134a

\*\*Refrigerant: R-407C