



## QVANTUM RS<sup>e</sup> – TECHNICAL DATA

Specification		Q32RS <sup>e</sup>	Q41RS <sup>e</sup>	Q48RS <sup>e</sup>	Q65RS <sup>e</sup>	Q81RS <sup>e</sup>
<b>Heating capacity according to EN14511</b>						
Heating capacity 0°C/35°C	kW	31,3	38,1	44,7	57,1	67,1
Heating capacity 10°C/35°C	kW	44,7	54,5	63,9	81,7	95,9
Heating capacity 0°C/45°C	kW	29,2	35,5	41,9	53,3	62,8
Heating capacity 10°C/45°C	kW	40,9	49,8	58,5	74,7	87,7
Heating capacity 0°C/65°C	kW	27,2	33,0	39,1	49,6	58,7
Heating capacity 10°C/65°C	kW	36,1	43,8	51,7	65,8	77,6
COP 0°C/35°C		4,4	4,4	4,3	4,4	4,3
COP 10°C/35°C		6,0	6,1	5,9	6,0	5,9
COP 0°C/45°C		3,4	3,4	3,4	3,4	3,4
COP 10°C/45°C		4,6	4,7	4,5	4,6	4,5
SCOP average climate, 35°C/55°C		4,79/3,73	4,86/3,78	4,73/3,70	4,86/3,78	4,73/3,70
SCOP colder climate, 35°C/55°C		4,87/3,88	4,93/3,92	4,80/3,88	4,93/3,92	4,80/3,88
<b>Energy efficiency class</b>						
Energy efficiency class, space heating, 35°C/55°C		A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
<b>Condensor</b>						
Condensor flow rate (ΔT=7K, 0°C/45°C)	l/s	0,99	1,21	1,43	1,81	2,14
Condensor flow rate (ΔT=10K, 10°C/45°C)	l/s	0,97	1,19	1,39	1,78	2,09
Pressure drop condensor (0°C/45°C)	kPa	11,0	13,0	15,0	27,0	24,0
Pressure drop condensor (10°C/45°C)	kPa	11,0	13,0	15,0	27,0	24,0
Max operating temperature	°C	74,0	74,0	74,0	74,0	74,0
Connection size condensor		Cu35.0	Cu35.0	Cu35.0	Cu42.0	Cu54.0
<b>Evaporator</b>						
Evaporator flow rate (ΔT=3K, 0°C/45°C)	l/s	1,79	2,18	2,55	3,28	3,83
Evaporator flow rate (ΔT=5K, 10°C/45°C)	l/s	1,65	2,01	2,35	3,01	3,52
Pressure drop evaporator (0°C/45°C)	kPa	32,0	26,0	32,0	35,0	39,0
Pressure drop evaporator (10°C/45°C)	kPa	21,0	18,0	22,0	24,0	26,0
Temperature evaporator inlet (Min/Max)*	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Temperature evaporator inlet (Min/Max)**	°C	-10 / 25	-10 / 25	-10 / 25	-10 / 25	-10 / 25
Connection size evaporator		Cu35.0	Cu35.0	Cu35.0	Cu42.0	Cu54.0
<b>Dimensions</b>						
Weight	kg	294	345	368	506	525
Length	mm	1 200	1 200	1 200	1 500	1 500
Width	mm	640	640	640	640	640
Height	mm	1 665	1 665	1 665	1 410	1 410
<b>Compressor</b> Fully hermetic scroll						
No. Compressors	pcs	2	2	2	3	3
No. refrigerant circuits	pcs	1	1	1	1	1
<b>Refrigerant</b> R-513A						
Amount of refrigerant	kg	3,9	4,5	4,6	7,0	8,1
GWP (AR5)		573	573	573	573	573
CO <sub>2</sub> (e)	tons	2,23	2,58	2,64	4,01	4,64
<b>Sound levels</b>						
Sound power level (L <sub>WA</sub> ) according to EN12102	dB(A)	47	47	47	50	50
<b>Power supply</b>						
Nominal voltage	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
<b>Electric power</b>						
Electric power 0°C/35°C	kW	7,2	8,6	10,4	12,9	15,6
Electric power 0°C/45°C	kW	8,2	10,0	12,0	15,0	18,0
<b>Electric consumption</b>						
Maximum electric consumption	A	26,4	32,0	37,4	48,0	56,1
Recommended fuse	A	35	50	50	63	80
<b>Appearance</b>						
Color side plates		White	White	White	White	White
Color stand		Galvanized	Galvanized	Galvanized	Galvanized	Galvanized

\*Version with water as brine

\*\*Version with brine bioetanol 29%