



# Quantum RSe

Technical data



## Addendum

QAD EN 2439-1  
D100002

# 1 Q32 – Q81RS<sup>e</sup>

SPECIFICATION		Q32	Q41	Q48	Q65	Q81
<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
<b>SCOP according to EN14825</b>						
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>Condenser</b>						
Condenser flow rate ( $\Delta T=7K$ , 0°C/45°C)	l/s	0.99	1.21	1.43	1.81	2.14
Condenser flow rate ( $\Delta T=10K$ , 10°C/45°C)	l/s	0.97	1.19	1.39	1.78	2.09
Pressure drop condenser (0°C/45°C)	kPa	11.0	13.0	15.0	27.0	24.0
Pressure drop condenser (10°C/45°C)	kPa	11.0	13.0	15.0	27.0	24.0
Maximum operating pressure		PN10	PN10	PN10	PN10	PN10
Max operating temperature	°C	74.0	74.0	74.0	74.0	74.0
Connection size condenser	mm	Cu35.0	Cu35.0	Cu35.0	Cu42.0	Cu54.0
<b>Evaporator</b>						
Evaporator flow rate ( $\Delta T=3K$ , 0°C/45 °C)	l/s	1.79	2.18	2.55	3.28	3.83
Evaporator flow rate ( $\Delta T=5K$ , 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
Maximum operating pressure		PN10	PN10	PN10	PN10	PN10
Temperature evaporator inlet (Min/Max) <sup>1</sup>	°C	-10/25	-10/25	-10/25	-10/25	-10/25
Connection size evaporator	mm	Cu35.0	Cu35.0	Cu35.0	Cu42.0	Cu54.0
<b>Dimensions</b>						
Weight	kg	294	345	368	506	525
Length	mm	1200	1200	1200	1500	1500
Width	mm	640	640	640	640	640
Height	mm	1665	1665	1665	1410	1410
<b>Compressor</b> Fully hermetic scroll						
No. compressors / No. refrigerant circuits	pcs/pcs	2/1	2/1	2/1	3/1	3/1
<b>Refrigerant (GWP)</b> R513A (631)						
Amount of refrigerant / CO <sub>2</sub> (e)	kg/tons	3.9/2.46	4.5/2.84	4.6/2.90	7.07/4.42	8.1/5.11
<b>Sound levels</b>						
Sound pressure level, measured at 1 m distance	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

<sup>1</sup> Brine type = Bioethanol 29%



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