



Quantum RS/2

Technical data



Addendum

QAD EN 2439-1
D100001

1 Q32 – Q81RS/2

SPECIFICATION		Q32	Q41	Q48	Q65	Q81
Heating capacity according to EN14511						
Heating capacity 0°C/35°C	kW	26.2	31.0	37.2	52.4	62.0
Heating capacity 10°C/35°C	kW	34.4	41.0	49.1	68.8	82.0
Heating capacity 0°C/45°C	kW	26.7	31.6	37.8	53.4	63.2
Heating capacity 10°C/45°C	kW	34.2	40.7	48.8	68.4	81.4
Heating capacity 0°C/65°C	kW	27.9	33.0	39.6	55.8	66.0
Heating capacity 10°C/65°C	kW	34.2	40.6	48.7	68.4	81.2
COP 0°C/35°C		4.5	4.5	4.4	4.5	4.5
COP 10°C/35°C		5.9	5.7	5.6	5.9	5.7
COP 0°C/45°C		3.7	3.6	3.6	3.7	3.6
COP 10°C/45°C		4.7	4.6	4.5	4.7	4.6
SCOP according to EN14825						
SCOP average climate, 35°C/55°C		5.14/4.17	5.04/4.12	4.94/4.03	5.14/4.17	5.04/4.12
SCOP colder climate, 35°C/55°C		5.23/4.31	5.12/4.25	5.02/4.16	5.23/4.31	5.12/4.25
Energy efficiency class						
Energy efficiency class, space heating, 35°C/55°C		A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Condenser						
Condenser flow rate ($\Delta T=7K$, 0°C/45°C)	l/s	0.90	1.06	1.27	1.79	2.12
Condenser flow rate ($\Delta T=10K$, 10°C/45°C)	l/s	0.90	1.06	1.27	1.79	2.12
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
Max operating pressure		PN10	PN10	PN10	PN10	PN10
Max operating temperature	°C	65.0	65.0	65.0	65.0	65.0
Connection size condenser	mm	Cu35.0	Cu35.0	Cu35.0	Cu54.0	Cu54.0
Evaporator						
Evaporator flow rate ($\Delta T=3K$, 0°C/45 °C)	l/s	1.62	1.91	2.27	3.23	3.82
Evaporator flow rate ($\Delta T=5K$, 10°C/45 °C)	l/s	1.35	1.59	1.89	2.69	3.18
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
Max operating pressure		PN10	PN10	PN10	PN10	PN10
Temperature evaporator inlet (Min/Max) ¹	°C	-10/25	-10/25	-10/25	-10/25	-10/25
Connection size evaporator	mm	Cu35.0	Cu35.0	Cu35.0	Cu54.0	Cu54.0
Dimensions						
Weight	kg	234	245	268	506	525
Length	mm	600	600	600	1200	1200
Width	mm	640	640	640	640	640
Height	mm	1665	1665	1665	1665	1665
Compressor Fully hermetic scroll						
No. compressors	pcs	1	1	1	2	2
No. refrigerant circuits	pcs	1	1	1	1	1
Refrigerant (GWP) R407C (1774)						
Amount of refrigerant	kg	3.8	4.0	4.6	8.9	9.5
CO ₂ (e)	tons	6.74	7.09	7.47	14.45	15.43
Sound levels						
Sound pressure level, measured at 1 m distance	dB(A)	47	47	47	50	50
Power supply						
Nominal voltage	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Electric power						
Electric power 0°C/35°C	kW	5.8	7.0	8.5	11.6	14.0
Electric power 0°C/45°C	kW	7.3	8.7	10.6	14.6	17.4
Electric consumption						
Maximum electric consumption	A	19.6	23.7	28.4	39.2	47.4
Maximum starting current (compressors only)	A	49.0	59.3	71.0	68.6	83.0
Recommended fuse	A	25	35	50	50	63

¹ Brine type = Bioethanol 29%

2 Q96 – Q192RS/2

SPECIFICATION		Q96	Q123	Q144	Q162	Q192
Heating capacity according to EN14511						
Heating capacity 0°C/35°C	kW	74.4	93.0	111.6	124.0	148.8
Heating capacity 10°C/35°C	kW	98.2	123.0	147.3	164.0	196.4
Heating capacity 0°C/45°C	kW	75.6	94.8	113.4	126.4	151.2
Heating capacity 10°C/45°C	kW	97.6	122.1	146.4	162.8	195.2
Heating capacity 0°C/65°C	kW	79.2	99.0	118.8	132.0	158.4
Heating capacity 10°C/65°C	kW	97.4	121.8	146.1	162.4	194.8
COP 0°C/35°C		4.4	4.5	4.4	4.5	4.4
COP 10°C/35°C		5.6	5.9	5.7	5.6	5.9
COP 0°C/45°C		3.6	3.6	3.6	3.6	3.6
COP 10°C/45°C		4.5	4.7	4.6	4.5	4.7
SCOP according to EN14825						
SCOP average climate, 35°C/55°C		-	-	-	-	-
SCOP colder climate, 35°C/55°C		-	-	-	-	-
Energy efficiency class						
Energy efficiency class, space heating, 35°C/55°C		-	-	-	-	-
Condenser						
Condenser flow rate ($\Delta T=7K$, 0°C/45°C)	l/s	2.54	3.22	3.86	4.30	5.14
Condenser flow rate ($\Delta T=10K$, 10°C/45°C)	l/s	2.54	4.15	4.98	5.54	6.64
Pressure drop condenser (0°C/45°C)	kPa	29.0	12.0	12.0	14.0	18.0
Pressure drop condenser (10°C/45°C)	kPa	29.0	18.0	20.0	22.0	25.0
Max operating pressure		PN10	PN10	PN10	PN10	PN10
Max operating temperature	°C	65.0	65.0	65.0	65.0	65.0
Connection size condenser	mm	Cu54.0	Cu54.0	Cu54.0	DN65 int thread	DN65 int thread
Evaporator						
Evaporator flow rate ($\Delta T=3K$, 0°C/45 °C)	l/s	4.53	5.73	6.80	7.63	9.07
Evaporator flow rate ($\Delta T=5K$, 10°C/45 °C)	l/s	3.78	4.60	5.48	6.06	7.35
Pressure drop evaporator (0°C/45°C)	kPa	35.0	42.0	40.0	43.0	45.0
Pressure drop evaporator (10°C/45°C)	kPa	25.0	48.0	47.0	46.0	49.0
Maximum operating pressure		PN10	PN10	PN10	PN10	PN10
Temperature evaporator inlet (Min/Max) ¹	°C	-10/25	-10/25	-10/25	-10/25	-10/25
Connection size evaporator	mm	Cu54.0	DN65 int thread	DN65 int thread	DN65 int thread	DN65 int thread
Dimensions						
Weight	kg	551	580	590	680	700
Length	mm	1500	1500	1500	2100	2100
Width	mm	640	640	640	640	640
Height	mm	1418	1418	1418	1438	1438
Compressor Fully hermetic scroll						
No. compressors	pcs	2	3	3	4	4
No. refrigerant circuits	pcs	1	1	1	2	2
Refrigerant (GWP) R407C (1774)						
Amount of refrigerant	kg	9.9	12.2	13.0	2x7.9	2x8.3
CO ₂ (e)	tons	16.08	21.64	23.06	28.03	29.45
Sound levels						
Sound pressure level, measured at 1 m distance	dB(A)	50	51	51	53	53
Power supply						
Nominal voltage	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Electric power						
Electric power 0°C/35°C	kW	17.0	21.0	25.5	28.0	34.0
Electric power 0°C/45°C	kW	21.2	26.1	31.8	34.8	42.4
Electric consumption						
Maximum electric consumption	A	56.8	71.1	85.2	94.8	113.6
Maximum starting current (compressors only)	A	99.4	106.7	127.8	130.4	156.2
Recommended fuse	A	80	125	125	125	2x80

¹ Brine type = Bioethanol 29%

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