



# Quantum RS/2

Technical data



## Addendum

QAD EN 2536-B  
D100001

# 1 Q65 – Q81RS/2

SPECIFICATION		Q65	Q81
<b>Heating capacity according to EN14511</b>			
Heating capacity 0°C/35°C	kW	52.4	62.0
Heating capacity 10°C/35°C	kW	68.8	82.0
Heating capacity 0°C/45°C	kW	53.4	63.2
Heating capacity 10°C/45°C	kW	68.4	81.4
Heating capacity 0°C/65°C	kW	55.8	66.0
Heating capacity 10°C/65°C	kW	68.4	81.2
COP 0°C/35°C		4.5	4.5
COP 10°C/35°C		5.9	5.7
COP 0°C/45°C		3.7	3.6
COP 10°C/45°C		4.7	4.6
<b>SCOP according to EN14825</b>			
SCOP average climate, 35°C/55°C		5.14/4.17	5.04/4.12
SCOP colder climate, 35°C/55°C		5.23/4.31	5.12/4.25
<b>Energy efficiency class</b>			
Energy efficiency class, space heating, 35°C/55°C		A+++/A+++	A+++/A+++
<b>Condenser</b>			
Condenser flow rate ( $\Delta T=7K$ , 0°C/45°C)	l/s	1.79	2.12
Condenser flow rate ( $\Delta T=10K$ , 10°C/45°C)	l/s	1.79	2.12
Pressure drop condenser (0°C/45°C)	kPa	27.0	24.0
Pressure drop condenser (10°C/45°C)	kPa	27.0	24.0
Max operating pressure		PN10	PN10
Max operating temperature	°C	65.0	65.0
Connection size condenser	mm	Cu54.0	Cu54.0
<b>Evaporator</b>			
Evaporator flow rate ( $\Delta T=3K$ , 0°C/45 °C)	l/s	3.23	3.82
Evaporator flow rate ( $\Delta T=5K$ , 10°C/45 °C)	l/s	2.69	3.18
Pressure drop evaporator (0°C/45°C)	kPa	35.0	39.0
Pressure drop evaporator (10°C/45°C)	kPa	24.0	26.0
Max operating pressure		PN10	PN10
Temperature evaporator inlet (Min/Max) <sup>1</sup>	°C	-10/25	-10/25
Connection size evaporator	mm	Cu54.0	Cu54.0
<b>Dimensions</b>			
Weight	kg	506	525
Length	mm	1200	1200
Width	mm	640	640
Height	mm	1665	1665
<b>Compressor</b> Fully hermetic scroll			
No. compressors	pcs	2	2
No. refrigerant circuits	pcs	1	1
<b>Refrigerant (GWP)</b> R407C (1774)			
Amount of refrigerant	kg	8.9	9.5
CO <sub>2</sub> (e)	tons	14.45	15.43
<b>Sound levels</b>			
Sound pressure level, measured at 1 m distance	dB(A)	50	50
<b>Power supply</b>			
Nominal voltage	V-ph-Hz	400-3-50	400-3-50
<b>Electric power</b>			
Electric power 0°C/35°C	kW	11.6	14.0
Electric power 0°C/45°C	kW	14.6	17.4
<b>Electric consumption</b>			
Maximum electric consumption	A	39.2	47.4
Maximum starting current (compressors only)	A	68.6	83.0
Recommended fuse	A	50	63

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

## 2 Q96 – Q192RS/2

SPECIFICATION		Q96	Q123	Q144	Q162	Q192
<b>Heating capacity according to EN14511</b>						
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
<b>SCOP according to EN14825</b>						
SCOP average climate, 35°C/55°C		-	-	-	-	-
SCOP colder climate, 35°C/55°C		-	-	-	-	-
<b>Energy efficiency class</b>						
Energy efficiency class, space heating, 35°C/55°C		-	-	-	-	-
<b>Condenser</b>						
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
<b>Evaporator</b>						
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) <sup>1</sup>	°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
<b>Dimensions</b>						
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
<b>Compressor</b> Fully hermetic scroll						
No. compressors	pcs	2	3	3	4	4
No. refrigerant circuits	pcs	1	1	1	2	2
<b>Refrigerant (GWP)</b> R407C (1774)						
Amount of refrigerant	kg	9.9	12.2	13.0	2x7.9	2x8.3
CO <sub>2</sub> (e)	tons	16.08	21.64	23.06	28.03	29.45
<b>Sound levels</b>						
Sound pressure level, measured at 1 m distance	dB(A)	50	51	51	53	53
<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	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
<b>Electric consumption</b>						
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

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

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