



QVANTUM RS/2 – TECHNICAL DATA

Specification		Q32RS/2	Q41RS/2	Q48RS/2	Q65RS/2	Q81RS/2	Q96RS/2	Q123RS/2	Q144RS/2	Q162RS/2	Q192RS/2
Heating capacity according to EN14511											
Heating capacity 0°C/35°C	kW	26,2	31,0	37,2	52,4	62,0	74,4	93,0	111,6	124,0	148,8
Heating capacity 10°C/35°C	kW	34,4	41,0	49,1	68,8	82,0	98,2	123,0	147,3	164,0	196,4
Heating capacity 0°C/45°C	kW	26,7	31,6	37,8	53,4	63,2	75,6	94,8	113,4	126,4	151,2
Heating capacity 10°C/45°C	kW	34,2	40,7	48,8	68,4	81,4	97,6	122,1	146,4	162,8	195,2
Heating capacity 0°C/65°C	kW	27,9	33,0	39,6	55,8	66,0	79,2	99,0	118,8	132,0	158,4
Heating capacity 10°C/65°C	kW	34,2	40,6	48,7	68,4	81,2	97,4	121,8	146,1	162,4	194,8
COP 0°C/35°C		4,5	4,5	4,4	4,5	4,5	4,4	4,5	4,4	4,4	4,4
COP 10°C/35°C		5,9	5,7	5,6	5,9	5,7	5,6	5,9	5,7	5,6	5,9
COP 0°C/45°C		3,7	3,6	3,6	3,7	3,6	3,6	3,6	3,6	3,6	3,6
COP 10°C/45°C		4,7	4,6	4,5	4,7	4,6	4,5	4,7	4,6	4,5	4,7
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+++	-	-	-	-	-
Condensor											
Condensor flow rate (ΔT=7K, 0°C/45°C)	l/s	0,90	1,06	1,27	1,79	2,12	2,54	3,22	3,86	4,30	5,14
Condensor flow rate (ΔT=10K, 10°C/45°C)	l/s	0,90	1,06	1,27	1,79	2,12	2,54	4,15	4,98	5,54	6,64
Pressure drop condensor (0°C/45°C)	kPa	11,0	13,0	15,0	27,0	24,0	29,0	12,0	12,0	14,0	18,0
Pressure drop condensor (10°C/45°C)	kPa	11,0	13,0	15,0	27,0	24,0	29,0	18,0	20,0	22,0	25,0
Max operating temperature	°C	65,0	65,0	65,0	65,0	65,0	65,0	65,0	65,0	65,0	65,0
Connection size condensor		Cu35.0	Cu35.0	Cu35.0	Cu54.0	Cu54.0	Cu54.0	Cu54.0	Cu54.0	DN65 int thread	DN65 int thread
Evaporator											
Evaporator flow rate (ΔT=3K, 0°C/45°C)*	l/s	1,62	1,91	2,27	3,23	3,82	4,53	5,73	6,80	7,63	9,07
Evaporator flow rate (ΔT=5K, 10°C/45°C)*	l/s	1,35	1,59	1,89	2,69	3,18	3,78	4,60	5,48	6,06	7,35
Pressure drop evaporator (0°C/45°C)	kPa	32,0	26,0	32,0	35,0	39,0	35,0	42,0	40,0	43,0	45,0
Pressure drop evaporator (10°C/45°C)	kPa	21,0	18,0	22,0	24,0	26,0	25,0	48,0	47,0	46,0	49,0
Temperature evaporator inlet (Min/Max)*	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	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	-10 / 25	-10 / 25	-10 / 25	-10 / 25	-10 / 25
Connection size evaporator		Cu35.0	Cu35.0	Cu35.0	Cu54.0	Cu54.0	Cu54.0	DN65 int thread	DN65 int thread	DN65 int thread	DN65 int thread
Dimensions											
Weight	kg	234	245	268	506	525	551	580	590	680	700
Length	mm	600	600	600	1 200	1 200	1 500	1 500	1 500	2 100	2 100
Width	mm	640	640	640	640	640	640	640	640	640	640
Height	mm	1 665	1 665	1 665	1 665	1 665	1 418	1 418	1 418	1 438	1 438
Compressor											
Fully hermetic EVI scroll											
No. Compressors	pcs	1	1	1	2	2	2	3	3	4	4
No. refrigerant circuits	pcs	1	1	1	1	1	1	1	1	2	2
Refrigerant											
Amount of refrigerant	kg	3,8	4,0	4,6	8,9	9,5	9,9	12,2	13,0	2x7,9	2x8,3
GWP (AR4)		1 774	1 774	1 774	1 774	1 774	1 774	1 774	1 774	1 774	1 774
CO ₂ (e)	tons	6,74	7,09	7,47	14,45	15,43	16,08	21,64	23,06	28,03	29,45
Sound levels											
Sound power level (L _{WA}) according to EN12102	dB(A)	47	47	47	50	50	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	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	17,0	21,0	25,5	28,0	34,0
Electric power 0°C/45°C	kW	7,3	8,7	10,6	14,6	17,4	21,2	26,1	31,8	34,8	42,4
Electric consumption											
Maximum electric consumption	A	19,6	23,7	28,4	39,2	47,4	56,8	71,1	85,2	94,8	113,6
Recommended fuse	A	25	35	50	50	63	80	125	125	125	2x80
Appearance											
Color side plates		White	White	White	White	White	White	White	White	White	White
Color stand		Galvanized	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized

*Version with water as brine

**Version with brine bioetanol 29%