QVANTUM
HEAT PUMPS FOR SUSTAINABLE CITIES

SERIES RK/2 – TECHNICAL DATA

Specification		Q15RK/2	Q17RK/2	Q21RK/2	Q25RK/2	Q32RK/2	Q41RK/2	Q48RK/2	Q65RK/2	Q81RK/2	Q96RK/2
Heating capacity according to EN14511-3:2013.											
Heating Capacity 10°C/35°C	kW	12,6	15,4	18,9	22,4	31,7	37,7	43,9	63,5	75,4	87,9
Heating Capacity 10°C/45°C	kW	13,0	15,3	19,0	22,5	31,8	37,7	44,0	63,5	75,4	88,1
Heating Capacity 10°C/65°C	kW	13,9	15,4	19,3	22,9	31,3	38,2	44,8	62,5	76,3	89,6
COP 10°C/35°C		5,3	5,4	5,5	5,7	5,5	5,3	5,1	5,5	5,3	5,1
COP 10°C/45°C		4,3	4,3	4,4	4,5	4,4	4,3	4,1	4,4	4,3	4,1
$SCOP_{EN14825}$ average climate	0°C/35°C	5,4	5,6	5,4	6,2	5,9	5,6	5,4	5,9	5,6	5,4
$SCOP_{EN14825}$ average climate	0°C/55°C	4,5	4,5	4,5	5,2	4,9	4,6	4,4	4,9	4,6	4,4
ErP rating	0°C/35°C	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
ErP rating	0°C/55°C	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
Condensor											
Condensor flow rate (ΔT=7°K, 10°C/45°C)	l/s	0,44	0,52	0,65	0,76	1,08	1,28	1,50	2,16	2,57	3,00
Pressure drop condensor	kPa	22,0	20,0	24,0	20,0	25,0	22,0	24,0	24,0	26,0	27,0
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	mm	Cu28.0	Cu28.0	Cu35.0	Cu35.0	Cu35.0	Cu35.0	Cu35.0	Cu42.0	Cu54.0	Cu54.0
Evaporator											
Evaporator flow rate (ΔT=3°K, 10°C/45°C)	l/s	0,59	0,70	0,87	1,04	1,46	1,72	1,98	2,91	3,44	3,95
Pressure drop evaporator	kPa	24,0	23,0	30,0	26,0	32,0	26,0	32,0	35,0	39,0	35,0
Temperature evaporator inlet (Min/Max)*	°C	5 / 40	5 / 40	5 / 40	5 / 40	5 / 40	5 / 40	5 / 40	5 / 40	5 / 40	5 / 40
Temperature difference (Min/Max)	°K	3 / 10	3 / 10	3 / 10	3 / 10	3 / 10	3 / 10	3 / 10	3 / 10	3 / 10	3 / 10
Connection size evaporator	mm	Cu28.0	Cu28.0	Cu35.0	Cu35.0	Cu35.0	Cu35.0	Cu35.0	Cu42.0	Cu54.0	Cu54.0
Dimensions											
Weight	kg	172	178	186	226	234	245	268	506	525	551
Length	mm	600	600	600	600	600	600	600	1 200	1 200	1 200
Width	mm	640	640	640	640	640	640	640	640	640	640
Height	mm	1 665	1 665	1 665	1 665	1 665	1 665	1 665	1 665	1 665	1 665
Compressor		Fully hermetic EVI scroll									
No. Compressors	pcs	1	1	1	1	1	1	1	2	2	2
No. refrigerant circuits	pcs	1	1	1	1	1	1	1	2	2	2
Refrigerant		R-407C									
Amount of refrigerant	kg	1,8	2,2	2,7	3,0	3,9	4,5	4,6	2x3,0	2x3,9	2x4,5
GWP (AR5)		1 624	1 624	1 624	1 624	1 624	1 624	1 624	1 624	1 624	1 624
CO_2(e)	tons	2,92	3,57	4,38	4,87	6,33	7,31	7,47	9,74	12,67	14,62
Sound levels (L_{WA}) according to EN12102:2013.											
Sound power level	dBA	47,0	47,0	47,0	47,0	47,0	47,0	47,0	50,0	50,0	50,0
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 0/35	kW	2,4	2,9	3,4	4,0	5,8	7,1	8,7	11,6	14,2	17,4
Electric power 0/45	kW	3,0	3,6	4,3	5	7,3	8,9	10,8	14,6	17,7	21,6
Electricity comsumption											
Maximum electricity comsumption	A	8,3	9,3	11,9	13,7	19,6	23,7	28,4	39,2	47,4	56,8
Recommended fuse	A	16	16	20	20	25	35	35	50	63	2x35
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