



QVANTUM KVP – TECHNICAL DATA

Specification		Q48KVP	Q65KVP	Q81KVP	Q96KVP
Heating capacity according to EN14511					
Heating capacity A7/W35	kW	40,0	57,6	66,8	80,0
Heating capacity A7/W45	kW	40,5	57,2	67,6	81,0
Heating capacity A2/W45	kW	35,6	50,4	59,4	71,2
Heating capacity A-5/W65	kW	33,1	46,6	55,2	66,2
Cooling capacity B12/W45 @ +28°C outside	kW	32,8	46,8	55,3	65,6
COP A7/W35		4,4	4,6	4,5	4,4
COP A7/W45		3,8	3,9	3,9	3,8
SCOP average climate, 35°C/55°C		4,98/4,13	5,19/4,29	5,08/4,22	-
SCOP cold climate, 35°C/55°C		4,54/3,85	4,69/3,96	4,63/3,92	-
Energy efficiency class					
Energy efficiency class, space heating, 35°C/55°C		A+++ / A+++	A+++ / A+++	A+++ / A+++	-
Condensator					
Condensator flow rate (ΔT=7K at A7/W45)	l/s	1,39	1,96	2,32	2,78
Pressure drop condensator	kPa	25,0	17,0	19,0	18,0
Max operating temperature	°C	65	65	65	65
Min outside temperature at +65°C flow temperature	°C	-20	-20	-20	-20
Connection size condensator	mm	Cu 35.0	Cu 54.0	Cu 54.0	Cu 54.0
Evaporator					
Evaporator flow rate (ΔT=4K at A7/W45)	l/s	2,15	3,60	4,20	5,00
Brine volume (fan unit including pipes 2x25 m)	liters	251	350	350	357
Connection size evaporator	mm	Cu 35.0	Cu 54.0	Cu 54.0	Cu 54.0
Dimensions compressor unit					
Weight	kg	418	740	750	770
Length	mm	1 500	2 100	2 100	2 100
Width	mm	640	640	640	640
Height	mm	1 410	1 410	1 410	1 410
Dimensions module					
Weight	kg	-	-	-	-
Length	mm	-	-	-	-
Width	mm	-	-	-	-
Height	mm	-	-	-	-
Dimensions fan unit					
Weight	kg	298	419	419	545
Length (all measurements with ±15 mm tolerance)	mm	2 510	4 105	4 105	5 954
Width (all measurements with ±15 mm tolerance)	mm	1 541	1 541	1 541	1 541
Height (all measurements with ±15 mm tolerance)	mm	1 396	1 342	1 342	1 342
Compressor Fully hermetic scroll					
No. compressors	pcs	1	2	2	2
No. refrigerant circuits	pcs	1	1	1	1
Refrigerant					
Amount of refrigerant	kg	4,6	8,9	9,5	9,9
GWP (AR5)		1 624	1 624	1 624	1 624
CO ₂ (e)	Tons	7,47	14,45	15,43	16,08
Fan unit					
No. fans	pcs	1	2	2	3
Air volume	m ³ /s	3,70	6,89	6,89	9,9
Sound level fan unit					
Sound pressure level 10 m according to EN13487	dBA	37	35	35	36
Sound level compressor unit					
Sound power level (L _{WA}) according to EN12102	dB(A)	47	50	50	50
Power supply					
Nominal voltage compressor unit & module	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50
Nominal voltage fans	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50
Electric consumption					
Maximum electric consumption compressor unit (3x400V)	A	30,1	41,5	50,5	59,9
Maximum electric consumption module (1x230V)	A	-	-	-	-
Recommended fuse compressor unit (3x400V)	A	50	63	63	80
Recommended fuse module (1x230V)	A	-	-	-	-
Appearance					
Color side plates		White	White	White	White
Color stand		Galvanized	Galvanized	Galvanized	Galvanized



QVANTUM KVP – TECHNICAL DATA

Specification		Q123KVP	Q144KVP	Q162KVP	Q192KVP
Heating capacity according to EN14511					
Heating capacity A7/W35	kW	100,2	120,0	133,6	160,0
Heating capacity A7/W45	kW	101,4	121,5	135,2	162,0
Heating capacity A2/W45	kW	89,1	106,8	118,8	142,4
Heating capacity A-5/W65	kW	82,8	99,3	110,4	132,4
Cooling capacity B12/W45 @ +28°C outside	kW	82,8	98,4	110,4	131,2
COP A7/W35		4,5	4,4	4,5	4,4
COP A7/W45		3,9	3,8	3,9	3,8
SCOP average climate, 35°C/55°C		-	-	-	-
SCOP cold climate, 35°C/55°C		-	-	-	-
Energy efficiency class					
Energy efficiency class, space heating, 35°C/55°C		-	-	-	-
Condensor					
Condensor flow rate (ΔT=7K at A7/W45)	l/s	3,48	4,16	4,63	5,55
Pressure drop condensor	kPa	15,0	15,0	18,0	23,0
Max operating temperature	°C	65	65	65	65
Min outside temperature at +65°C flow temperature	°C	-20	-20	-20	-20
Connection size condensor	mm	Cu 54.0	Cu 54.0	DN65 int thread	DN65 int thread
Evaporator					
Evaporator flow rate (ΔT=4K at A7/W45)	l/s	5,42	6,44	7,20	9,20
Brine volume (fan unit including pipes 2x25 m)	liters	662	689	671	705
Connection size evaporator	mm	DN65 int thread	DN65 int thread	DN65 int thread	DN65 int thread
Dimensions compressor unit					
Weight	kg	580	590	680	700
Length	mm	1500	1500	2100	2100
Width	mm	640	640	640	640
Height	mm	1 410	1 410	1 410	1 430
Dimensions module					
Weight	kg	400	430	550	580
Length	mm	2 100	2 100	2 100	2 100
Width	mm	640	640	640	640
Height	mm	1 410	1 410	1 410	1 410
Dimensions fan unit					
Weight	kg	667	730	995	1098
Length (all measurements with ±15 mm tolerance)	mm	4 133	4 749	5 982	5 982
Width (all measurements with ±15 mm tolerance)	mm	2 343	2 343	2 343	2 343
Height (all measurements with ±15 mm tolerance)	mm	1 534	1 534	1 534	1 534
Compressor Fully hermetic scroll					
No. compressors	pcs	3	3	4	4
No. refrigerant circuits	pcs	1	1	2	2
Refrigerant					
Amount of refrigerant	kg	12,2	13,0	2x7,9	2x8,3
GWP (AR5)		1 624	1 624	1 624	1 624
CO ₂ (e)	Tons	19,81	21,11	25,66	26,96
Fan unit					
No. fans	pcs	4	4	6	6
Air volume	m ³ /s	13,18	13,42	18,8	18,45
Sound level fan unit					
Sound pressure level 10 m according to EN13487	dBA	37	37	37	37
Sound level compressor unit					
Sound power level (L _{WA}) according to EN12102	dB(A)	51	51	53	53
Power supply					
Nominal voltage compressor unit & module	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50
Nominal voltage fans	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50
Electric consumption					
Maximum electric consumption compressor unit (3x400V)	A	71,1	85,2	94,8	113,6
Maximum electric consumption module (1x230V)	A	8,0	9,0	9,5	14,5
Recommended fuse compressor unit (3x400V)	A	125	125	125	2x80
Recommended fuse module (1x230V)	A	16	16	20	25
Appearance					
Color side plates		Vit	Vit	Vit	Vit
Color stand		Galvaniserad	Galvaniserad	Galvaniserad	Galvaniserad