



## QVANTUM KVP – TECHNICAL DATA

Specification		Q48KVP	Q65KVP	Q81KVP	Q96KVP
<b>Heating capacity according to EN14511</b>					
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 @ +27°C outside	kW	40,8	58,0	68,5	81,5
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	-
<b>Energy efficiency class</b>					
Energy efficiency class, space heating, 35°C/55°C		A+++ / A+++	A+++ / A+++	A+++ / A+++	-
<b>Condensator</b>					
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
<b>Evaporator</b>					
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
<b>Dimensions compressor unit</b>					
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
<b>Dimensions module</b>					
Weight	kg	-	-	-	-
Length	mm	-	-	-	-
Width	mm	-	-	-	-
Height	mm	-	-	-	-
<b>Dimensions fan unit</b>					
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
<b>Compressor</b> Fully hermetic scroll					
No. compressors	pcs	1	2	2	2
No. refrigerant circuits	pcs	1	1	1	1
<b>Refrigerant</b>					
Amount of refrigerant	kg	4,6	8,9	9,5	9,9
GWP (AR4)		1 774	1 774	1 774	1 774
CO <sub>2</sub> (e)	Tons	8,16	15,79	16,85	17,56
<b>Fan unit</b>					
No. fans	pcs	1	2	2	3
Air volume	m <sup>3</sup> /s	3,70	6,89	6,89	9,9
<b>Sound level fan unit</b>					
Sound pressure level 10 m according to EN13487	dBA	37	35	35	36
<b>Sound level compressor unit</b>					
Sound power level (L <sub>WA</sub> ) according to EN12102	dB(A)	47	50	50	50
<b>Power supply</b>					
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
<b>Electric consumption</b>					
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	-	-	-	-
<b>Appearance</b>					
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 @ +27°C outside	kW	102,7	122,3	137,0	163,1
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		-	-	-	-
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#### Condensator

Condensator flow rate (ΔT=7K at A7/W45)	l/s	3,48	4,16	4,63	5,55
Pressure drop condensator	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 condensator	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 (AR4)		1 774	1 774	1 774	1 774
CO <sub>2</sub> (e)	Tons	21,64	23,06	28,03	29,45

#### Fan unit

No. fans	pcs	4	4	6	6
Air volume	m <sup>3</sup> /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
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#### Sound level compressor unit

Sound power level (L <sub>WA</sub> ) according to EN12102	dB(A)	51	51	53	53
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#### 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