

IES *Heat Pumps*

IES X-Terra 415 ***Datasheet***



General Data

Power range (rounded)	B0/W 35: 4 - 15	[kW]
Energy class flow 35°C	A+++	[-]
Energy class flow 55°C	A+++	[-]
Max. flow temperature [°C]	60	

Electrical Data

Protection marking	IP 20	[-]
Control supply	1/N/PE, 230V, 50Hz	[V, Hz]
Rated input control	28	[W]
Cos(ϕ) control	0.90	[-]
Fuse control	1x B6	[-]
Compressor supply	1/N/PE, 230V, 50Hz	[V, Hz]
Operating current compressor	8	[A]
Max. operating current compressor	25	[A]
Starting current compressor with / without softstarter	N/A	[A / A]
Cos(ϕ) compressor	0,98	[-]
Fuse compressor	1x C25	[-]
Res. current circuit breaker compressor supply	30mA, Type B / B+	[-]

Sound power level data acc. EN12102

Nom. sound power level heat pump @ 2m	50	[dB(A)]
Max. sound power level heat pump @ 4m	46	[dB(A)]
Level surcharge low-freq. noise characteristics	-	[dB]

Refrigerant circuit data

Compressor- type	Rotary	[-]
Refrigerant- type	R32	[-]
Refrigerant- amount	1.7	[kg]
Refrigerant- fluidgroup	1	[-]
Refrigerant- GWP	1147	[-]
Compressor oil- type	3MA-POE	[-]
Compressor oil- amount	1.4	[l]

Heating side

Condenser- type	plate heat exchanger	[-]
Condenser- material	stainless steel, soldered copper	[-]
Condenser- flow rate (5K)	1.8	[m³/h]
Condenser- pressure loss	3.6	[kPa]
Circulation pump- type	Wita 15/80/130	[-]
Circulation pump- residual head	-	[mWs]
Circulation pump- max. power	42	[W]

Source side

Condenser- type	plate heat exchanger	[-]
Condenser- material	stainless steel, soldered copper	[-]
Condenser- flow rate (5K)	2.2	[m³/h]
Condenser- pressure loss	6.4	[kPa]
Circulation pump- type	Wita 15/80/130	[-]
Circulation pump- residual head	-	[mWs]
Circulation pump- max. power	65	[W]

Peformance Data

Operating Point	Compressor Speed	Heating Power kW	Electric Power kW	COP
B0/W35	100%	15.2	3.61	4.2
B0/W30	54%	8.20	1.54	5.3
B/0W27	15%	2.28	0.34	5.7
B0/W55	100%	13.4	4.87	2.75
B0/W42	54%	7.2	1.89	4.8
B0/W30	15%	1.98	0.45	4.4

Climate	35°C	SCOP	5.25
		η_s	210
Average	55°C	SCOP	3.75
		η_s	150

Dimension	Length	Height	Depth
mm	1000	700	500

Connection	Connection type
Brine in	G1" External Thread
Brine Out	G1" External Thread
Heating In (return)	G1" External Thread
Heating Out (flow)	G1" External Thread