

Nominal Capacity and Nominal Input					ZHBW126A0 [HM121M.U33]	ZHBW146A0 [HM141M.U33]	ZHBW166A0 [HM161M.U33]			
	Condition	Outdoor Temp (°C) DB / WB	Leaving Waer Temp (°C)	-						
Capacity	Cooling	35 / 24	18	kW	12,00	14,00	16,00			
		35 / 24	7	kW	12,00	14,00	16,00			
	Heating	7 / 6	35	kW	12,00	14,00	16,00			
		7 / 6	55	kW	12,00	12,00	12,00			
		2 / 1	35	kW	11,00	12,00	13,80			
Power Input	Cooling	35 / 24	18	kW	2,61	3,26	4,00			
		35 / 24	7	kW	4,44	5,38	6,40			
	Heating	7 / 6	35	kW	2,61	3,11	3,64			
		7 / 6	55	kW	4,29	4,29	4,29			
		2 / 1	35	kW	3,13	3,42	3,94			
EER	Cooling	35 / 24	18	W/W	4,60	4,30	4,00			
		35 / 24	7	W/W	2,70	2,60	2,50			
COP	Heating	7 / 6	35	W/W	4,60	4,50	4,40			
		7 / 6	55	W/W	2,80	2,80	2,80			
		2 / 1	35	W/W	3,52	3,51	3,50			
SCOP (Low temp. Average)					4,45	4,45	4,45			
SCOP (High temp. Average)					3,18	3,18	3,18			
Technical Specifications					ZHBW126A0 [HM121M.U33]	ZHBW146A0 [HM141M.U33]	ZHBW166A0 [HM161M.U33]			
Water Side	Operation Range (Leaving Water Temperature)	Cooling	Min. ~ Max.	°C DB	5 ~ 27	5 ~ 27	5 ~ 27			
		Heating	Min. ~ Max.	°C DB	15 ~ 65	15 ~ 65	15 ~ 65			
		DHW	Min. ~ Max.	°C DB	15 ~ 80	15 ~ 80	15 ~ 80			
	Water Pump	Type	-					Canned type for hot water circulation	Canned type for hot water circulation	Canned type for hot water circulation
		Model	-					UPML GEO 20-105 CHBL	UPML GEO 20-105 CHBL	UPML GEO 20-105 CHBL
		Motor Type	-					BLDC	BLDC	BLDC
		Steps of Pumping speed	-					Variable speed 10% to 100%	Variable speed 10% to 100%	Variable speed 10% to 100%
		Power input	Min. / Rated	W	14 / 140	14 / 140	14 / 140			
		Water Flow Rate	Min. / Rated	l/min	5.0 / 46.0	5.0 / 46.0	5.0 / 46.0			
	Heat Exchanger	Type	-					Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		Quantity	-					1	1	1
		Number of Plate	EA					76	76	76
		Water Volume	l					3	3	3
		Water Flow Rate	Min. ~ Max.	l/min	13 ~ 70	13 ~ 70	13 ~ 70			
	Expansion Vessel	Volume	Max.	l	8	8	8			
		Water pressure	Max.	bar	3	3	3			
		Water pressure	Pre-charged	bar	1	1	1			
	Piping Connections	Inlet	mm					Male PT 25(1)	Male PT 25(1)	Male PT 25(1)
		Outlet	mm					Male PT 25(1)	Male PT 25(1)	Male PT 25(1)
	Strainer	Mesh size	-					28 mesh	28 mesh	28 mesh
Material		-					Stainless Steel	Stainless Steel	Stainless Steel	
Safety Valve	Pressure Limit	Upper Limit	bar	3,0	3,0	3,0				
	Devices for Water Circuit			-	Relief valve / Flow Switch	Relief valve / Flow Switch	Relief valve / Flow Switch			
			-	Drain hose / Shut Off Valve	Drain hose / Shut Off Valve	Drain hose / Shut Off Valve				
			-	Pressure gauge / Air vent	Pressure gauge / Air vent	Pressure gauge / Air vent				
Refrigerant Side	Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB	5 ~ 48	5 ~ 48	5 ~ 48			
		Heating	Min. ~ Max.	°C DB	-25 ~ 35	-25 ~ 35	-25 ~ 35			
	Compressor	Type	-					Hermetic Motor Compressor	Hermetic Motor Compressor	Hermetic Motor Compressor
		Model	Model x No.					RJB036MAA x 1	RJB036MAA x 1	RJB036MAA x 1
		Motor Type	-					Scroll	Scroll	Scroll
		Displacement	cm3/Rev.					31,6	31,6	31,6
	Refrigerant	Type	-					R32	R32	R32
		GWP (Global Warming Potential)	-					675,0	675,0	675,0
		Precharged Amount	g					2,400	2,400	2,400
		t-CO2 eq.	-					1,620	1,620	1,620
Refrigerant Oil	Control	-					Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
	Type	-					FW68D	FW68D	FW68D	
Fan	Charged Volume	cc x No.					1,000	1,000	1,000	
	Type	-					Propeller	Propeller	Propeller	
	Air Flow Rate	Rated	m3/min x No.	60,0 x 2	60,0 x 2	60,0 x 2				
Fan Motor	Type	-					BLDC	BLDC	BLDC	
	Output	W x No.					124 x 2	124 x 2	124 x 2	
Electrical Specifications					ZHBW126A0 [HM121M.U33]	ZHBW146A0 [HM141M.U33]	ZHBW166A0 [HM161M.U33]			
Power Supply				V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50			
Circuit Breaker				A	45	45	45			
Maximum Running Current	Cooling	A			42,0	42,0	42,0			
	Heating	A			42,0	42,0	42,0			
Wiring Connections	Power Supply Cable (included Earth)			No x mm2	3 x 6.0 (H07RN-F)	3 x 6.0 (H07RN-F)	3 x 6.0 (H07RN-F)			
Technical Specifications					ZHBW126A0 [HM121M.U33]	ZHBW146A0 [HM141M.U33]	ZHBW166A0 [HM161M.U33]			
Sound Power Level	Heating	Max.	dB(A)	63	63	63				
Dimensions	Unit	W x H x D		mm	1,239 x 1,450 x 390	1,239 x 1,450 x 390	1,239 x 1,450 x 390			
	Packed Unit	W x H x D		mm	1,364 x 1,602 x 461	1,364 x 1,602 x 461	1,364 x 1,602 x 461			
Weight	Unit	kg			130,0	130,0	130,0			
	Packed Unit	kg			145,0	145,0	145,0			