

GAS ENGINE HEAT PUMP 2-PIPE

TECHNICAL DATA VRF

ENCP ... L1			450	560	710	850	
Rated heating capacity ¹⁾	A7 DB / A20	kW	50	63	80	95	
Heating capacity ¹⁾	A-7 DB / A20	kW	53	67	84	95	
Rated cooling capacity ¹⁾	A35 / A27 DB (19 WB)	kW	45	56	71	85	
Dimensions ²⁾	H x W x D	mm	2.288 x 1.690 x 830				
Weight	(without/with heat recovery)	kg	785 / 795	805 / 815	885 / 895	890 / 900	
Connectable indoor units ³⁾	Design factor IU to OU	%	50-130				
	Min. capacity IU	kW	2.2				
	Max. number IU		26	32	40	48	
Electrical characteristics	Power supply	V / Ph / Hz	230 / 1 / 50				
	Starting current	A	20				
	Operating current heating / cooling	A	2.77 / 7.87	3.21 / 6.93	7.22 / 8.17	8.21 / 10.85	
	Power consumption heating / cooling	kW	0.49 / 1.43	0.57 / 1.26	1.32 / 1.51	1.51 / 1.98	
Fuel data	Gas type		Natural gas I3E (optional LPG I3P)				
	Rated gas consumption (LHV) heating / cooling	kW	28 / 29	36 / 38	43 / 49	55 / 65	
	Max. gas consumption (LHV)	kW	55	64	76	90	
	Gas supply pressure	mbar	17-25				
Engine	Type		YANMAR four-stroke engine, water-cooled				
	Cylinder		3		4		
	Cubic capacity	cm ³	1,642		2,190		
	Speed range	heating	1 / min	650-2,550	650-2,800	650-2,600	650-2,800
		Cooling	1 / min	650-1,600	650-1,900	650-2,100	650-2,350
	Lubricant oil	Type		Yanmar genuine GEHP oil			
Quantity		l	36	40	46	51	
Cooling water engine	Type		Yanmar genuine LLC				
	Quantity	l	23		29		
	Concentration	%	50				
Compressors	Type		Scroll				
	Quantity		2				
	Power transmission		Poly-V flat belt				
Refrigerant	Type		R410A				
	Quantity	kg	9				
Fans	Type		Axial				
	Quantity		2				
	Related air flow	m ³ /h	28,200	30,600	31,800	33,600	
	External pressure (max.)	Pa	5 (30)				
Sound pressure level ⁴⁾ (sound power level)	Nominal	dB(A)	62,7 (83)	62,0 (83)	65,0 (85)	68,2 (87)	
	Quiet mode	dB(A)	53,6 (80)	55,4 (80)	57,1 (82)	61,0 (84)	
	Maximum (heating mode)	dB(A)	67 (87)	68 (88)	67 (87)	69 (89)	
Pipe connections	Refrigeration gas / liquid pipe ⁵⁾	Inch	1 1/8 / 1/2	1 1/8 / 5/8	1 1/4 / 3/4	1 1/4 / 3/4	
	Exhaust pipe (outside diameter)	mm	89				
	Fuel gas pipe	Inch	R 3/4				
	Drain pipe (inside diameter)	mm	16				
	Exhaust drain pipe (inside diameter)	mm	15				
Maintenance interval engine / engine oil ⁶⁾		h	10,000 / 20,000				
Heating capacity heat recovery	Cooling mode, 100 % load	kW	16,0	20,5	28,5	30,0	
	Heating mode, 35 % load	kW	5,0	6,0	10,0	11,0	

1) Capacities, electrical characteristics and fuel consumptions are calculated for a standard indoor/outdoor unit combination with a 7.5 m piping length and 0 m level difference.

2) See accessories for dimensions with vibration dampers.

3) The specified values relate to the minimum or maximum total capacity of the indoor units, not to the total of the capacity indices.

4) The operating noise levels shown above were measured at a distance of 1 m to the front face of each unit and at a height of 1.5 m and then converted into an anechoic room equivalent level. The noise level of the actually installed unit is usually higher than the indicated value due to influences of ambient noise and echo.

5) The dimensions of the refrigerant connection pipes can be found in the engineering or installation manual for the gas engine heat pump or will be worked out for you by Yanmar.

6) Depending on working and operating conditions.