

Absorption Heat Pump

Performance Data

• HPS Series

Steam Fired Type Absorption Heat Pump (670 ~ 4686kW)

Model		Unit	HP5010	HP5012	HP5015	HP5018	HP5021	HP5024	HP5028	HP5032	HP5036	HP5040	HP5045	HP5050	HP5056	HP5063	HP5070
Heating capacity		Mcal/h	576	691	864	1036	1209	1382	1612	1842	2073	2303	2591	2879	3224	3627	4030
Hot Water	Inlet Temp./Outlet Temp.	°C	20 / 80														
	Flow rate	ton/h	9.6	11.5	14.4	17.3	20.2	23.0	26.9	30.7	34.5	38.4	43.2	48.0	53.7	60.5	67.2
	P. Drop	mAq	3.6	3.7	9.8	10.0	9.4	9.9	8.9	9.4	9.4	9.0	9.4	9.3	3.0	4.1	5.4
	Connection	mm	65A					80A					100A				
Recovery Heat Capacity		Mcal/h	227	272	340	408	476	544	635	726	816	907	1,021	1,134	1,270	1,429	1,588
Waste Hot Water	Inlet Temp./Outlet Temp.	°C	30 / 20														
	Flow rate	m ³ /h	22.7	27.2	34.0	40.8	47.6	54.4	63.5	72.6	81.6	90.7	102.1	113.4	127.0	142.9	158.8
	P. Drop	mAq	10.7	10.8	10.7	11.3	9.9	10.6	10.5	11.0	11.1	12.0	10.6	11.0	10.3	13.9	14.8
	Connection	A	80A					100A					125A				
Steam side	Flow rate	kg/h	622.5	747.0	933.8	1120.5	1307.3	1494.0	1743.0	1992.0	2241.0	2490.0	2801.3	3112.5	3486.0	3921.8	4357.5
	Inlet Connection	mm	80					100					125				
	Drain Connection	mm	25					40					50				
	Valve Connection	mm	40			40			50			65			80		
Electric	Power source	-	3ø, 400V, 50Hz														
	Absb. Pump	kW [A]	1.5 [5.4]			3.0 [7.5]			3.4 [10.2]			5.5 [15.0]					
	Ref. Pump	kW [A]	0.3 [1.5]					0.4 [1.6]					1.5 [4]				
	Purge Pump	kW [A]	0.4 [1.0]														
	Control Panel	kW [A]	0.3 [0.5]														
	Total Ampare	A	8.4			10.5			13.3			20.5					
Size	Length [L]	mm	2,436			3,456			3,506			4,526			4,606		
	Width [W]	mm	1,335			1,495			1,558			1,689			1,861		
	Height [H]	mm	1,980			2,370			2,700			3,100					
Weight	Rigging	ton	3.3	3.4	4.1	4.3	5.2	5.5	6.2	6.6	7.9	8.5	10.0	10.4	14.4	15.6	16.4
	Operation	ton	4.5	4.8	5.8	6.2	7.5	8.0	9.0	9.7	11.5	12.3	14.5	15.2	20.0	21.8	23.1
	Max. Shipping	ton	3.3	3.4	4.1	4.3	5.2	5.5	6.2	6.6	7.9	8.5	10.0	10.4	12.4	13.4	14.0
	Shipment Type	-	One Body												Two Body		
Space for Tube Replacement		mm	2,400			3,400			4,500			5,200			5,700		

• HPD Series

Direct Fired Type Absorption Heat Pump (670 ~ 4686kW)

Model		Unit	HPD010	HPD012	HPD015	HPD018	HPD021	HPD024	HPD028	HPD032	HPD036	HPD040	HPD045	HPD050	HPD056	HPD063	HPD070			
Hot Water Outlet capacity		Mcal/h	576	691	864	1036	1209	1382	1612	1842	2073	2303	2591	2879	3224	3627	4030			
Hot Water	Inlet Temp./Outlet Temp.	°C	20 / 80																	
	Flow rate	ton/h	9.6	11.5	14.4	17.3	20.2	23.0	26.9	30.7	34.5	38.4	43.2	48.0	53.7	60.5	67.2			
	P. Drop	mAq	3.6	3.7	9.8	10.0	9.4	9.9	8.9	9.4	9.4	9.0	9.4	9.3	3.0	4.1	5.4			
	Connection	mm	65A					80A					100A							
Waste Heat Capacity		Mcal/h	227	272	340	408	476	544	635	726	816	907	1,021	1,134	1,270	1,429	1,588			
Waste Water	Inlet Temp./Outlet Temp.	°C	30 / 20																	
	Flow rate	m ³ /h	22.7	27.2	34.0	40.8	47.6	54.4	63.5	72.6	81.6	90.7	102.1	113.4	127.0	142.9	158.8			
	P. Drop	mAq	10.7	10.8	10.7	11.3	9.9	10.6	10.5	11.0	11.1	12.0	10.6	11.0	10.3	13.9	14.8			
	Connection	mm	80A					100A					125A							
fuel consumption	LNG[10,500kcal/Nm ³]	Nm ³ /h	40.0	48.0	60.1	72.1	84.1	96.1	112.1	128.1	144.1	160.1	180.2	200.2	224.2	252.2	280.3			
	LPG[12,000kcal/kg]	kg/h	35.0	42.0	52.5	63.1	73.6	84.1	96.1	112.1	126.1	140.1	157.6	175.2	196.2	220.7	245.2			
	Supply pressure	mmAq	4,000																	
	Gas connection	A	40A					50A					20A x 2							
	Kerosene[10,960kcal/l]	l/h	39.3	47.2	59.0	70.7	82.5	94.3	110.1	125.8	141.5	157.2	176.9	196.5	220.1	247.6	275.1			
	Diesell[11,100kcal/l]	l/h	38.8	46.6	58.2	69.9	81.5	93.1	106.7	124.2	139.7	155.2	174.6	194.0	217.3	244.5	271.7			
Oil Connection	A	15A x 2																		
Electric	Power source	-	3ø, 400V, 50HZ																	
	Absb. Pump	kW [A]	1.5 [5.4]			3.0 [7.5]			3.4 [10.2]			5.5 [15.0]								
	Ref. Pump	kW [A]	0.3 [1.5]					0.4 [1.6]					1.5 [4]							
	Gas Burner	kW [A]	1.5 [3.5]			2.2 [5.0]			3.7 [8.1]			4.0 [10.5]			7.5 [18.6]					
	Oil Burner	kW [A]	1.5 [3.5]		2.2 [5.0]		3.7 [8.1]		6.3 [13.1]		8.6 [21.9]									
	Purge Pump	kW [A]	0.4 [1.0]																	
Control Panel	KVA	0.3 [0.5]																		
Total Ampare	A	11.9/11.9	11.9/13.4	14.0/15.5	15.5/23.1	15.5/23.1	21.4/26.4	23.8/26.4	31.9/35.2	39.1/42.4										
Size	Length [L]	mm	2,643		2,843		3,456		3,645		4,526		4,606		4,666		5,206			
	Width [W]	mm	1,980			2,370			2,315		2,461		0		2,557		2,590		2,819	
	Height [H]	mm	1,930			2,370			2,700			3,100								
Weight	Rigging	ton	4.0	4.1	4.9	5.3	6.5	6.9	7.9	8.6	10.3	10.8	12.6	13.3	19.0	20.6	21.8			
	Operation	ton	5.2	5.5	6.6	7.3	8.7	9.3	10.7	11.7	13.9	14.6	17.1	18.1	24.6	26.8	28.5			
	Max. Shipping	ton	4.0	4.1	4.9	5.3	6.5	6.9	7.9	8.6	10.3	10.8	12.6	13.3	12.4	13.4	14.0			
	Shipment Type	-	One Body												Two Body					
Exhaust Duct		mm	280*210			310*310			360*310			410*310			350*350			400*620		
Space for Tube Replacement		mm	2,400			3,400			4,500			5,200			5,700					

HPS, HPD, AHT Series

Absorption Heat Pump

Performance Data

• AHT Series

Steam Generation Absorption Heat Pump

Model		Unit	AHT-560	AHT-1100	AHT-1650	AHT-2200	AHT-2250	AHT-3300	AHT-3800	
Hot Water	Heating Capacity	kcal/h	300,000	600,000	900,000	1,200,000	1,500,000	1,800,000	2,100,000	
	flow rate	ton	50	100	150	200	250	300	350	
	Inlet Temp.	°C	127	127	127	127	127	127	127	
	Outlet Temp.	°C	133	133	133	133	133	133	133	
	Pre. Drop	mAq	5	5	5	5	5	5	5	
	Connection	A	100	125	150	200	200	200	250	
	Max. Working Pressure	kg/cm ² G	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
Waste Steam	Waste Heat Capacity	kcal/h	625,000	1,250,000	1,875,000	2,500,000	3,125,000	3,750,000	4,375,000	
	Temp.	°C	88	88	88	88	88	88	88	
	Connection	A	150	200	200	250	250	300	300	
	Drain Connection	A	50	80	100	125	125	125	150	
	Max. Working Pre	kg/cm ² G	2	2	2	2	2	2	2	
Cooling Water	Flow rate	ton/h	54	108	162	216	270	324	378	
	Inlet Temp.	°C	26	26	26	26	26	26	26	
	Outlet Temp.	°C	32	32	32	32	32	32	32	
	Pre. Drop	mAq	7	7	7	7	7	7	7	
	Connection	A	100	125	150	200	200	250	250	
	Condition	–	Industrial Water							
	Max. Working	kg/cm ² G	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Electric	Power source	–	3ø, 400V, 50Hz							
	Abs. Pump	kW	1.5	2.2	3.7	3.7	5.5	5.5	5.5	
	Ref. Pump-1	kW	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
	Ref. Pump-2	kW	0.75	0.75	0.75	0.75	0.75	1.5	1.5	
	Purge Pump	kW	0.4	0.4	0.4	0.75	0.75	0.75	0.75	
	Control Panel	VA	300	300	300	300	300	300	300	
Size	Lenght (L)	mm	4,470	4,645	4,680	6,870	6,870	7,150	7,735	
	Width (W)	mm	2,405	3,005	3,260	3,240	3,310	3,585	4,000	
	Height (H)	mm	4,300	4,615	5,010	5,120	5,370	5,770	5,430	
Operation	ton	16	27	36	48	52	59	63		

Note

1. Available model will be selected as Temperature condition of Waste water and Hot water.
2. Waste water side tube material is 90/10 Cupro Nickel. Tube material may be changed as the waste water and hot water condition.
3. Standard power source is 3ph, 400V, 50Hz. Available 220, 380, 440V and 460V Power source.
4. Please consult with sale person in case of the other fuel condition. Do not available Buncker C oil.

• 10 ton/h Absorption Heat Pump Installation [Korea]

