



MAYEKAWA NEW STANDARD HEAT PUMP

PLUS+HEAT



The **MAYEKAWA Plus+HEAT**

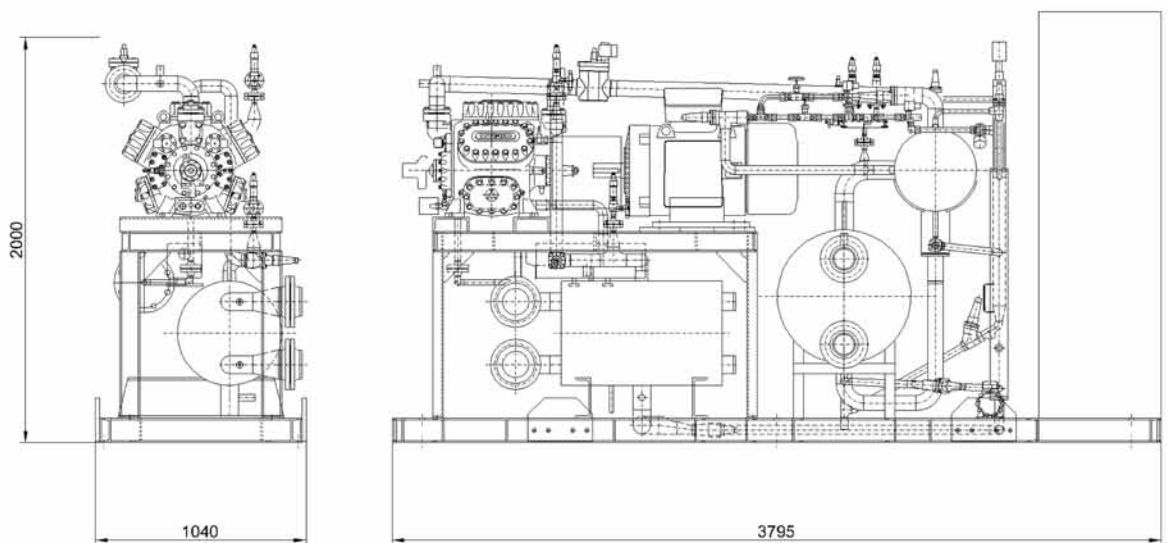
product belongs to the **MAYEKAWA 'NATURAL 5'** program, and introduces herewith a new generation of energy saving equipment, using the **MAYEKAWA N6HK** high pressure compressor (50 bar) with natural refrigerant NH_3 (GWP=0).

The **MAYEKAWA Plus+HEAT** unit can produce hot water maximum 85 °C by using different heat sources such as condenser heat from existing refrigeration plants, waste heat from industrial plants, renewable geothermal energy, and many more.

The **MAYEKAWA Plus+HEAT** system directly contributes to fossil fuel reduction, what means also CO_2 emission reduction resulting in fuel- and CO_2 emission cost reduction. Additional energy savings are possible by applying frequency invertors for compressor speed control for high efficiency operation.

The **MAYEKAWA Plus+HEAT** unit is design compact with small footprint and maintenance friendly so that contracting work at site is minimized.

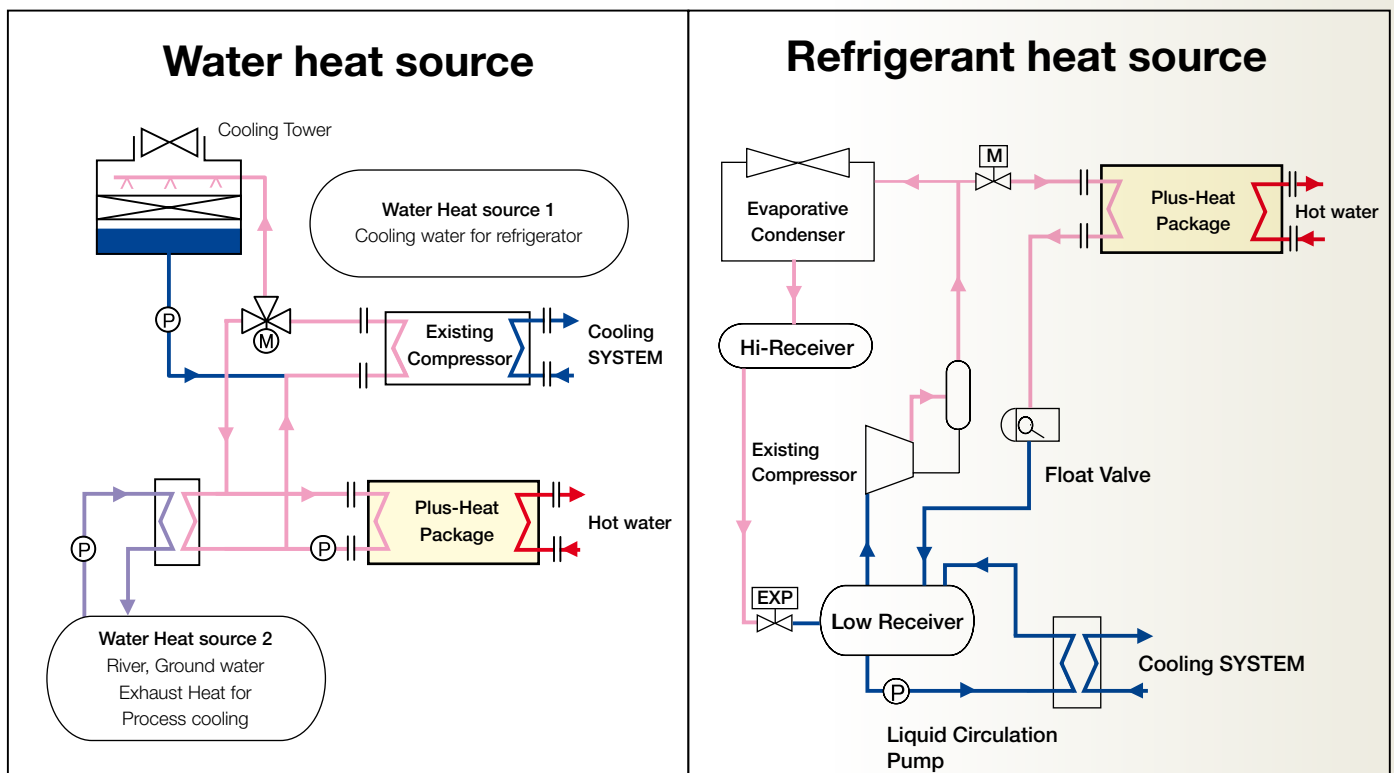
Dimension of **PLUS+HEAT**



HEAT SOURCE			WATER					REFRIGERANT(NH3, HCFC22, ETC)			
Refrigerant			Ammonia (R717)								
Type			PH-W85	PH-W105		PH-W125 ¹⁾		PH-R85	PH-R105		PH-R125
Outlet Hot Water Temperature		°C	65	70	75	80	85	65	70	75	80
Capacity	Heating Capacity	kW	471	458	444	430	487	471	458	444	430
	Required Capacity of Heat source	kW	399	377	356	334	378	399	377	356	334
	Absorbed Power	BkW	73	81	89	96	109	73	81	89	96
	C.O.P heating	-	6,5	5,7	5,0	4,8	4,5	6,5	5,7	5,0	4,8
Power Supply			400V 3φ 50Hz/200V 1φ 50Hz					400V 3φ 50Hz/200V 1φ 50Hz			
Type of Compressor			N6HK (Receiproating Compressor)					N6HK (Receiproating Compressor)			
Motor Power ²⁾		kW	85	105	105	125	125	85	105	105	125
Starter			your selection					your selection			
Recommendable oil			Standard: Mobil SHC228 other applicable oil: Kluber-Summit RHT100								
Evaporator	Type		Shell & Plate type heat exchanger					Shell & Plate type heat exchanger			
	Temperature of Heat Source	°C	40/35	40/35	40/35	40/35	45/40	-	-	-	-
	Flow rate of Heat source	m ² /h	68,6	64,9	61,1	57,4	65,0	-	-	-	-
	Condensing temperature of Heat source	°C	-	-	-	-	-	32	32	32	32
Condenser	Type		Shell & Plate type heat exchanger					Shell & Plate type heat exchanger			
	Temperature of Hot water	°C	60/65	65/70	70/75	75/80	80/85	60/65	65/70	70/75	75/80
	Flow rate of hot water	m ² /h	81,1	78,8	76,4	73,9	83,7	81,1	78,8	76,4	73,9
Dimension	Wide W)	mm	1000					1000			
	Length (L)	mm	3795					3795			
	Height (H1) Unit	mm	2000					2000			
	Height (H2) Starter	mm	2200					2200			
	Weight	kg	-	-	-	3600		-	-	-	-

1) Available 2) In case of IPM motor; you can choose an other type of motor

Note: Above this specification is subject to change without notice



WORLDWIDE

- 35 countries / 122 offices
- 8 production plants



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