

1. SPECIFICATION DATA ABSORPTION HEAT PUMP

MODEL		-	RHP195
LOCATION		-	INDOOR, NON-HAZARDOUS
APPLIED STANDARD		-	CE / JIS B8622 Japan / ISO 9001 / ISO 14001
COOLING CAPACITY		kW	8504
HEATING CAPACITY		kW	19500
COP COOLING		-	0.755
COP HEATING		-	1.755
TURN DOWN RATIO		%	100 ~ 20 PROPOTIONAL, UNDER 20/ ON-OFF
CHILLED WATER, EVAPORATOR			
	MEDIUM	-	FRESH WATER
	IN /OUT TEMP.	°C	37.0 → 27.0
	FLOW RATE	t/h	731.2
	MAX. WORKING PRESSURE	MPaG	1.0 (10 barg)
	FOULING FACTOR	m²K/kW	0.086
		m²h°C/kcal	0.0001
PRESSURE DROP	kPa	104.86 (10.7 mH2O)	
HEATING WATER, ABSORBER AND CONDENSER			
	MEDIUM	-	FRESH WATER
	IN /OUT TEMP.	°C	51.0 → 62.8
	FLOW RATE	t/h	1420.9
	MAX. WORKING PRESSURE	MPaG	1.6 (16 barg)
	FOULING FACTOR	m²K/kW	0.086
		m²h°C/kcal	0.0001
PRESSURE DROP	kPa	90.16 (9.2 mH2O)	
STEAM, GENERATOR			
	SUPPLY PRESSURE @Control Valve	MPaG	0.37
	SUPPLY PRESSURE @Gen.-inlet	MPaG	0.32
	MAX.SUPPLY PRESSURE @Control Valve	MPaG	0.5 (5.0 barg)
	TEMPERATURE	°C	Saturated Temp.
	CONSUMPTION	t/h	17.21
	DRAIN PRESSURE	MPaG	< 0.02
	DRAIN TEMPERATURE	°C	≤ 95
ELECTRICAL DATA			
	POWER SOURCE	V × Φ × Hz	400 × 3 × 50
	CONTROL CIRCUIT	V × Φ × Hz	220 × 3 × 50
	POWER CONSUMPTION	kW	49.0
	POWER CAPACITY	kVA	79.2
FLANGE CONNECTION			
	FLANGE TYPE	-	STANDARD METRIC UNIT

Project : Lithuania, Grynerga

Date: 07.Jun.2022

	CHILLED WATER	mm	DN300
	HEATING WATER	mm	DN450
	STEAM	mm	DN300
	STEAM DRAIN	mm	DN100
	RUPTURE DISK	mm	DN50
MAX. SHIPPING WEIGHT		ton	27.7
TOTAL SHIPPING WEIGHT		ton	44.4
APPROX.OPERATING WEIGHT		ton	53.4
DIMENSION (L*W*H)		mm	9000*3600*4410
SHIPPING STYLE		-	2 PIECES SHIPMENT

2. MATERIALS OF HEAT EXCHANGE TUBE

COMPONENT	PART	MATERIALS	NOTES
EVAPORATOR	TUBES	EN-1.4404 (SUS316L)	Stainless Steel
ABSORBER	TUBES	EN-1.4404 (SUS316L)	Stainless Steel
CONDENSER	TUBES	EN-1.4404 (SUS316L)	Stainless Steel
GENERATOR	TUBES	EN-1.4462 (S22053)	Duplex Stainless Steel

3. EQUIPMENT DATA (QUANTITY BELOW SHOWS FOR ONE UNIT)

EQUIPMENT	Q'TY	NOTE
EVAPORATOR/ABSORBER	1	Shell & Tube, Tube set: Expanding
GENERATOR/CONDENSER	1	Shell & Tube, Tube set: Expanding
SOLUTION HEAT EXCHANGER	1	Plate Heat Exchanger
DRAIN HEAT EXCHANGER	1	Plate Heat Exchanger
DRAIN TRAP	1	Float Ball Type for steam condensate line
REFRIGERANT PUMP	1	Hermetic Canned Motor Type
SOLUTION PUMP	1	Hermetic Canned Motor Type
SOLUTION SPRAY PUMP HIGH PRESSURE	1	Hermetic Canned Motor Type
SOLUTION SPRAY PUMP LOW PRESSURE	1	Hermetic Canned Motor Type
AUTO PURGE UNIT	1	With a vacuum pump
VACUUM PUMP	1	Ratary vane type
LOCAL CONTROL PANEL	1	PLC Panasonic
LiBr SOLUTION	1set	48% Concentration For Initial Charge
REFRIGERANT	1set	Pure Water For Initial Charge
RUPTURE DISK	1	Relief device
CAPACITY CONTROL VALVE	1	Motor drive or Pneumatic type with I/P Positioner
SOLUTION FILTER	1 set	Cartridge Type

Note:

1) Quality of chilled water ,cooling water and steam drain shall be controlled according to JRA-GL-02E-1994.

(Guideline of the JAPANESE REFRIGERATION AND AIR CONDITIONING INDUSTRY ASSOCIATION).

2) Capacity Criterial based on specified operating condition above is based on accordance with JIS B 8622 Japan.