

Refrigeracion Verde

Industrial Refrigeration , Air Conditioning and Ventilation
Design and Manufacture of Engineered Equipment

Refrigeracion Verde S.A.S.

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WATER CHILLERS IN CCHP COGENERATION PACKAGES WITH NATURAL GAS , BITZER OPEN SCREW COMPRESSOR , 134A AND 407C REFRIGERANTS , AIR COOLED CONDENSER

- CCHP Natural Gas Cogeneration Unit with Thermal efficiency up to 90%
- A wise choice when the cost of electricity weighs or is difficult to access
- The best option when additional Hot Water or Steam is required , such as in Hospitals and Hotels
- Industrial Class with Open Compressor . The System is not contaminated in the event of burning the Motor
- Coupling and Coupling Housing for the aligned of the Motor
- Variable Speed Motor according to Water Temperature
- Electrical Motor IP 55 , FS 1.15 , Premium IE 3 , 1800 RPM (60 Hz)
- Genset with Natural Gas **CUMMINS Engine** , Continuous Duty and WEG Alternator at 440 V Y / 220 V YY
- 3-Stage **Heat Recovery** (Condenser + Engine Cooling + Exhaust Gases) for Hot Water or Steam supply

R134A WATER CHILLERS BITZER COMPRESSOR AND CUMMINS NATURAL GAS ENGINE GENSET

PACKAGE MODEL CCPH134A -	3500 RPM BITZER COMPRESSOR					MOTOR		GENSET	1800 RPM NATURAL GAS ENGINE				
	MODEL- K	DISP M3/H	CAP KW _R	PWR KW _M	COND KW _{REJ}	KW	SIZE	KW _E	MODEL	DISP	PWR KW _M	KW _{REJ} TO COOLANT	CONSUM NM3/HR
BS-56-24	OSK5341	101	56.3	17.12	73.5	22	160L	24	G3.9	3.9 L	33	< 25.9	< 12.06
BS-69-40	OSK5351	121	68.7	19.96	88.7	30	200L	40	GTA3.9	3.9 L	55	< 41.3	< 17.00
BS-81-40	OSK5361	142	81.4	23.7	105.1	30	200L	40	GTA3.9	3.9 L	55	< 41.3	< 17.00
BS-118-48	OSK7441	199	118.1	35.2	153.3	45	225M	48	G5.9	5.9 L	60	< 67.5	< 18.62
BS-142-80	OSK7451	232	142.2	41.4	183.6	55	250M	80	GTA5.9	5.9 L	100	< 75.0	< 25.00
BS-164-70	OSK7461	266	164.2	46.0	210	55	250M	80	GTA5.9	5.9 L	100	< 75.0	< 25.00
BS-179-80	OSK7471	302	178.7	49.8	228	75	250M	80	GTA5.9	5.9 L	100	< 75.0	< 25.00
BS-220-120	OSK8551	380	220	65.7	286	90	280M	120	GTA8.3	8.3 L	145	< 109	< 30.30
BS-253-120	OSK8561	433	253	72.9	326	90	280M	120	GTA8.3	8.3 L	145	< 109	< 30.30
BS-294-137	OSK8571	495	294	81.3	376	110	280M	120	GTA8.3	8.3 L	145	< 109	< 30.30
BS-323-120	OSK8581	567	323	92.7	416	110	280M	120	GTA8.3	8.3 L	145	< 109	< 30.30
BS-372-200	OSK8591	646	372	105.5	477	150	315M	200	GTA855	14 L	240	< 180	< 67.04

R407C WATER CHILLERS BITZER COMPRESSOR AND CUMMINS NATURAL GAS ENGINE GENSET

PACKAGE MODEL CCPH407C -	3500 RPM BITZER COMPRESSOR					MOTOR		GENSET	1800 RPM NATURAL GAS ENGINE				
	MODEL- K	DISP M3/H	CAP KW _R	PWR KW _M	COND KW _{REJ}	KW	SIZE	KW _E	MODEL	DISP	PWR KW _M	KW _{REJ} TO COOLANT	CONSUM NM3/HR
BS-81-40	OSK5341	101	81.0	26.1	102.6	37	225M	40	GTA3.9	3.9 L	55	< 41.3	< 17.00
BS-98-40	OSK5351	121	97.7	31.3	123.7	37	225M	40	GTA3.9	3.9 L	55	< 41.3	< 17.00
BS-116-48	OSK5361	142	115.6	35.7	146.4	45	225M	48	G5.9	5.9 L	60	< 67.5	< 18.62
BS-164-80	OSK7441	199	164.0	56.8	208	75	250M	80	GTA5.9	5.9 L	100	< 75.0	< 25.00
BS-205-80	OSK7451	232	205	62.3	260	75	250M	80	GTA5.9	5.9 L	100	< 75.0	< 25.00
BS-238-120	OSK7461	266	238	69.0	301	90	280M	120	GTA8.3	8.3 L	145	< 109	< 30.30
BS-261-120	OSK7471	302	261	74.7	330	90	280M	120	GTA8.3	8.3 L	145	< 109	< 30.30
BS-325-200	OSK8551	380	325	97.3	412	150	315M	200	GTA855	14 L	240	< 180	< 67.04
BS-371-200	OSK8561	433	371	111.4	469	150	315M	200	GTA855	14 L	240	< 180	< 67.04
BS-426-200	OSK8571	495	426	125.7	539	150	315M	200	GTA855	14 L	240	< 180	< 67.04
BS-483-200	OSK8581	567	483	141.2	611	185	315L	200	GTA855	14 L	240	< 180	< 67.04
BS-550-300	OSK8591	646	550	159.2	697	200	355M	300	KTA19	19 L	341	< 261	< 100.56

NOTES :

1. Water Chiller Rated at 60 Hz , Water Entering 12°C / Leaving 7°C , 35°C Air Entering at Condenser , Rated at SST 2°C , Superheat 10°K , SDT 50°C , Sub-Cooling 10°K , External Oil Cooling
2. Heat to Coolant (KW_{REJ}) and Consumption (NM3/HR) Natural Gas at 100% Load Engine
3. Natural Gas with Methane Number > 80 and Lower Calorific Value > 10 KWH/NM³
4. The Genset has the capacity to move the Compressor Electric Motor and the Auxiliary Motors