

# PACKAGE AIR COOLED CHILLER UNIT

MODEL: PNSA-CWB

CAPACITY: 6.13 to 30.6 Nominal Tons

73,500 to 367,290 BtuH

21.5 to 107.6 KW



## Features/Benefits

The PNSA-CWB unit has a compact design that is up to 30% smaller than earlier air-cooled chillers. The compact footprint can yield substantial installation savings by requiring less structural steel, concrete, security fencing or architectural screening. The PNSA-CWB unit is delivered as a complete package for easy installation. A quick start-up is assured once installation is complete, since each PNSA-CWB unit is manufactured at an ISO 9002 listed manufacturing facility to ensure quality. In addition, all units are factory run tested under full load to provide reliable start-up.

## PHYSICAL DATA & ELECTRICAL DATA

MODEL: PNSA-CWB		007	009	010	012	015	020	025	030	040	
Nominal Cooling Capacity	BTUH	73,500	81,750	95,720	120,600	138,000	186,330	241,720	277,710	367,290	
	Tons	6.13	6.81	7.98	10.05	11.50	15.53	20.14	23.14	30.61	
	KWH	21.5	24.0	28.1	35.3	40.4	54.6	70.8	81.4	107.6	
Rated Voltage		[ 380V / 3P / 50Hz ] [ 440V / 3P / 60Hz ]									
Compressor Type	Type	Hermetic				Semi-Hermetic					
	HP.	7-1/2	9	10	12	15	20	25	30	40	
	Qty. / Unit	1									
Condenser Coil	Type/Material	Plate Fin / Aluminium Fin & Copper Tube Or Copper Fin									
	Face area (Sq. Ft.)	12.44		17.36		21.53	28.33	35.83	50.5	65	
	Rows..Fins/In	3....14									
	Tube Size (in)	3/8			1/2						
Condenser Fan	FAN	Type	Propeller Fan : Vertical Discharge : Direct Drive								
		Diameter (in)	24		20		24	30	24	30	
		Diameter (mm)	609		508		609	761	609	761	
	MOTOR	Each Mottor (HP.)	3/4		1/3		3/4	1	3/4	1	
		Rpm.	900								
		Qty./Unit	1		2			3		4	
		Air Quantity (CFM)	7,000		10,000	10,000	14,000	20,000	21,000	30,000	40,000
		Air Quantity (CMH)	11,900		17,000	17,000	23,800	34,000	35,700	51,000	68,000
Refrigerant	Type	R 22 (R 407C ON REQUEST ONLY)									
	Charge	Holding									
Water Chiller		Fouling Factor 0.0005 Ft <sup>2</sup> .h. F./btu									
No. Of Circuits		Single									
Chilled Water Flow Rate	GPM	14.70	16.35	19.14	24.12	27.6	37	50.35	55.54	73.46	
Chilled Water Temp. In/Out	° F	55/45									
	° C	13/7									
Chilled Water Pressure Drop	(Ft. WG)	1.25	1.55	2.64	3.96	1.53	0.96	2.06	4.42	3.07	
Compressor (Each)	V / PH / Hz	[ 380V / 3P / 50Hz ] [ 440V / 3P / 60Hz ]									
	RLA. (Amp)	15.8	19.3	21.1	27.6	28.6	44	56	68	95	
	LRA. (Amp.)	91.1	96.5	104	135	120	173	223	253	345	
Fan Motor (Each)	V / PH / Hz	380V / 3P / 50Hz		220V / 1P / 50Hz		380V / 3P / 50Hz					
	V / PH / Hz	440V / 3P / 60Hz		208V / 1P / 60Hz		440V / 3P / 60Hz					
	RLA. (Amp)	1.8	1.8	0.98		1.8	2.3	1.8	2.3	2.3	
Weight	Operation (Kgs.)	392	454	563	626	670	840	930	998	1445	

Note :

RLA = Rated Load Amp.

LRA = Locked Rotor Amp.

\* Nominal Cooling Capacity Based on 3°C Suction Temp. And 35°C Ambient Temp.

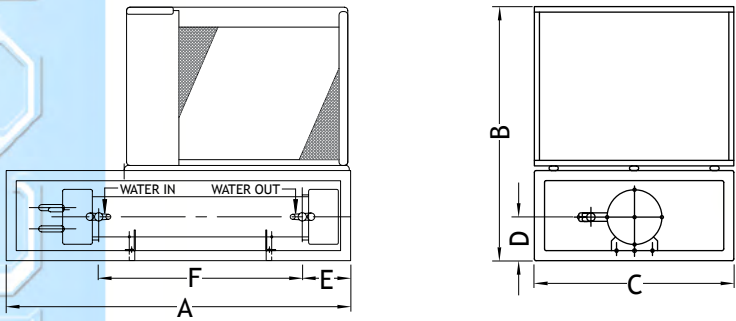
Liquid Suncooled -9.4 °C

Temperature: 1 °C = 33.8 °F

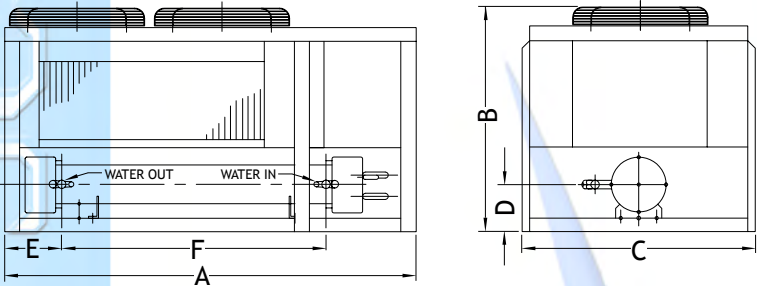
1 °F = -17.2 °C

Air Flow: 1 CFM = 1.699011 CMH

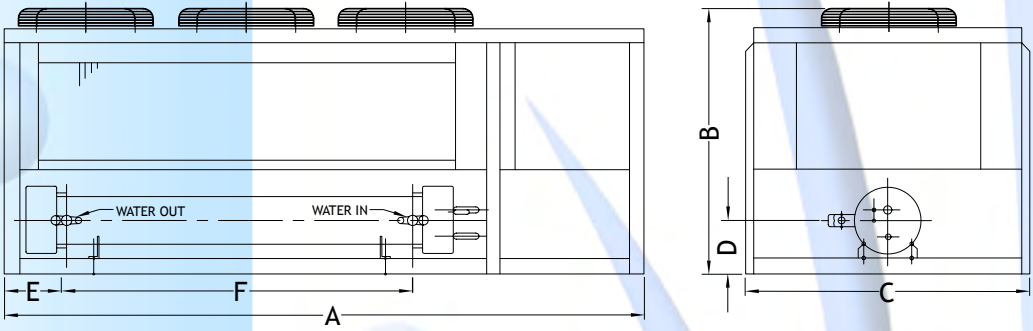
# DIMENSIONAL DRAWING



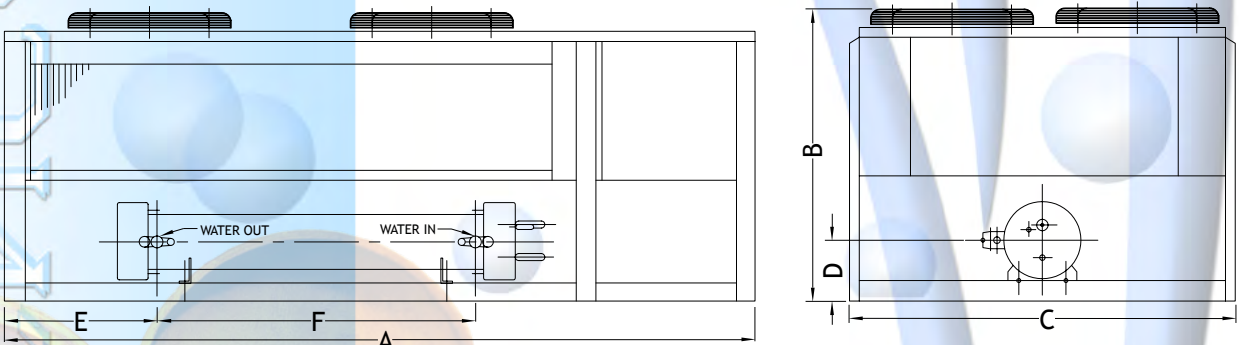
PNAS-CWB	A	B	C	D	E	F
	mm (inch)					
007-009	1724 (68)	1296 (51)	1016 (40)	209 (8)	199 (8)	1067 (42)



PNAS-CWB	A	B	C	D	E	F
	mm (inch)					
010-012	2083 (82)	1206 (48)	1194 (47)	235 (9)	255 (10)	1372 (54)
015	2388 (94)	1206 (48)	1194 (47)	260 (10)	286 (11)	1206 (48)
020	2794 (110)	1333 (53)	1448 (51)	260 (10)	256 (10)	1498 (59)



PNAS-CWB	A	B	C	D	E	F
	mm (inch)					
025	3251 (128)	1333 (53)	1448 (57)	260 (10)	292 (12)	1803 (71)
030	3862 (152)	1535 (60)	1448 (57)	285 (11)	257 (10)	1346 (53)



PNAS-CWB	A	B	C	D	E	F
	mm (inch)					
40	3810 (150)	1491 (59)	1980 (78)	310 (12)	753 (30)	1639 (65)

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.