

AIR COOLED CONDENSING UNIT

MODEL: PNSA-CU

CAPACITY: 49.6 to 224.0 Nominal Tons

594,800 to 2,687,400 BtuH

174.3 to 787.4 KW



Features/Benefits

The PNSA-CU 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-CU unit is delivered as a complete package for easy installation. A quick start-up is assured once installation is complete, since each PNSA-CU 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-CU (2 CIRCUITS)		050	060	070	080	100	120	140	160	180	210	240	
Nominal Cooling Capacity	BTUH	594,800	648,600	772,200	895,800	1,189,600	1,297,200	1,544,400	1,791,600	1,945,800	2,316,600	2,687,400	
	Tons	49.57	54.05	64.35	74.65	99.13	108.10	128.70	149.30	162.15	193.05	223.95	
	KWH	174.3	190.0	226.3	262.5	348.6	380.1	452.5	524.9	570.1	678.8	787.4	
Compressor	Type	Semi-Hermetic											
	HP	25	30	35	40	25	30	35	40	30	35	40	
	Qty./Unit	2	2	2	2	4	4	4	4	6	6	6	
Condenser Coil	Type/Material	Plate Fin / Aluminium Fin & Copper Tube											
	Face area (Sq. Ft.)	69.4	100.7	100.7	100.7	138.8	138.9	170.1	170.1	201.4	201.4	239.6	
	Rows..Fins/In	3....14	2....14	3....14			4....14	3....14	4....14	3....14	4....14		
	Tube Size (in)	1/2											
Condenser Fan	FAN	Type	Propeller Fan : Vertical Discharge : Direct Drive										
		Diameter (in)	30										
		Each Motor (HP.)	1										
	MOTOR	Rpm.	900										
		Qty./Unit	4	6	6	6	8	8	10	10	12	12	14
		Air Quantity (CFM)	40,000	60,000	60,000	60,000	96,000	96,000	120,000	120,000	144,000	144,000	168,000
		Air Quantity (CMH)	68,000	102,000	102,000	102,000	163,200	163,200	204,000	204,000	244,800	244,800	285,600
Refrigerant	Type	R-22 (R-407C On Request Only)											
	Charge	Holding											
Compressor (Each)	V / PH / Hz	380V / 3P / 50Hz											
	V / PH / Hz	440V / 3P / 60Hz											
	RLA. (Amp.)	56	68	67.5	95	56	68	67.5	95	68	67.5	95	
	LRA (Amp.)	223	253	225	345	223	253	225	345	253	225	345	
Fan Motor (Each)	V / PH / Hz	380V / 3P / 50Hz											
	V / PH / Hz	440V / 3P / 60Hz											
	RLA. (Amp.)	2.3											
Weight	Operation (Kgs.)	1416	1724	1906	2767	2835	3262	4569	5132	5151	5262	5450	

Note :

RLA = Rated Load Amp.

LRA = Locked Rotor Amp.

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

Liquid Subcooled -9.4 °C

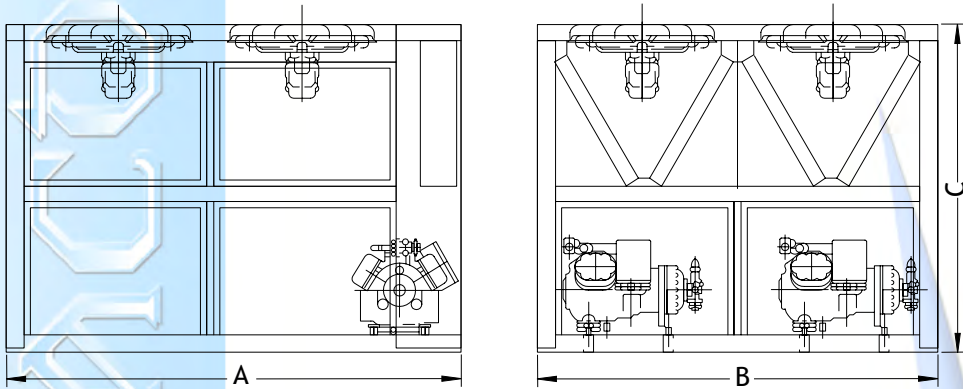
Fouling Factor 0.0005 Ft² .h.F/Btu in Chiller

Temperature: 1 °C = 33.8 °F

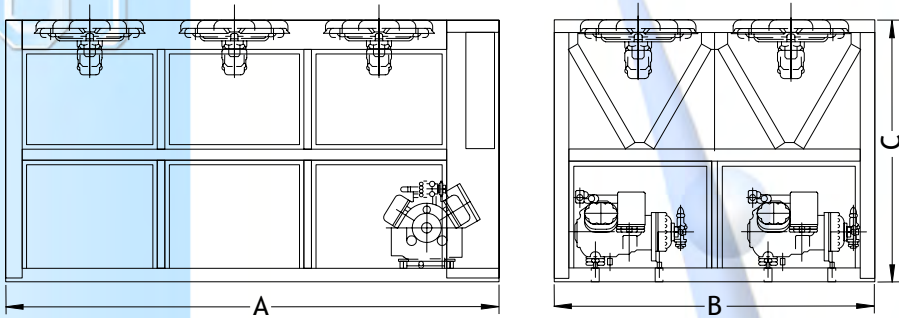
1 °F = -17.2 °C

Air Flow: 1 CFM = 1.699011 CMH

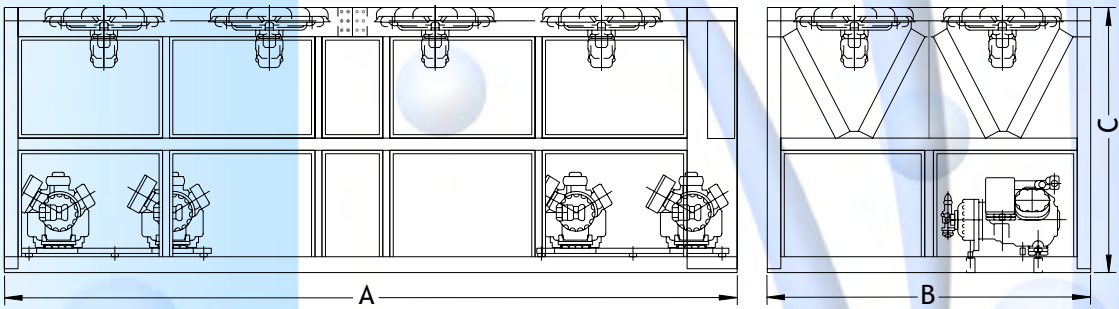
DIMENSIONAL DRAWING



PNSA-CU	A	B	C
	(mm) (inch)		
050	2528 (10)	1830 (72)	2240 (88)

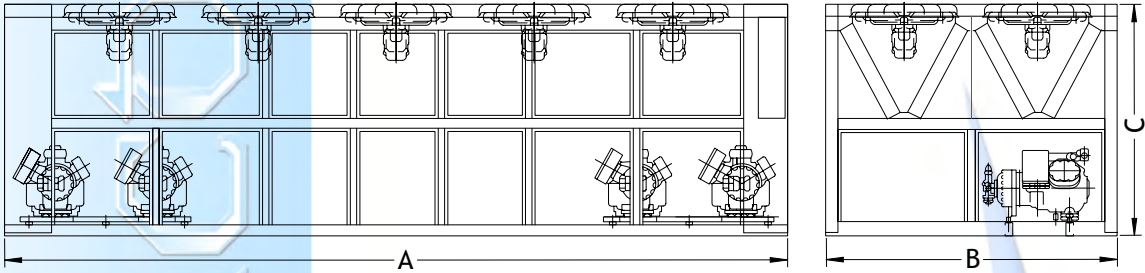


PNSA-CU	A	B	C
	(mm) (inch)		
060	3442 (136)	1830 (72)	2240 (88)
070			
080			

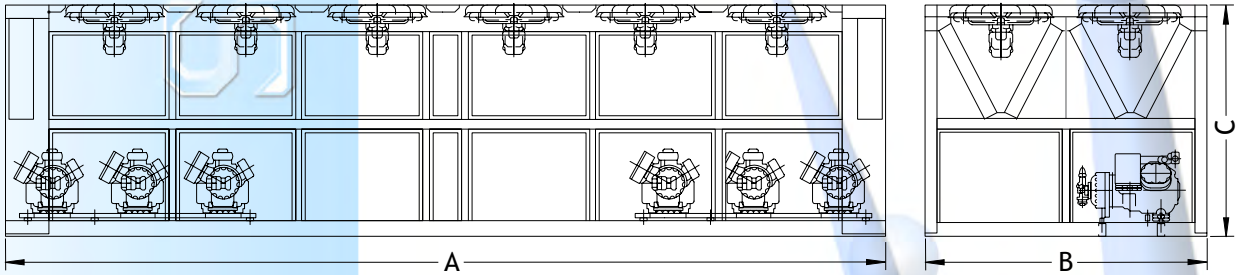


PNSA-CU	A	B	C
	(mm) (inch)		
100	5080	1830	2240
120	(200)	(72)	(88)

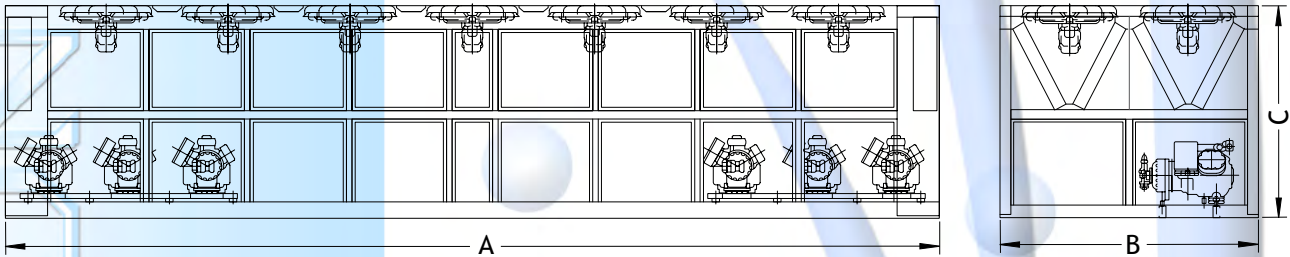
DIMENSIONAL DRAWING



PNSA-CU	A	B	C
	(mm) (inch)		
140	6081	1830	2240
160	(240)	(72)	(88)



PNSA-CU	A	B	C
	(mm) (inch)		
180	7076	1880	2240
210	(279)	(74)	(88)



PNSA-CU	A	B	C
	(mm) (inch)		
240	8136	1880	2240
	(321)	(74)	(88)