



# PBT SERIES

## PRODUCT DIMENSIONS & SPECIFICATIONS

# CASED CEILING MOUNT HYDRONIC HEAT DX COOL AIR HANDLER

## WARRANTY

ONE YEAR LIMITED  
PARTS WARRANTY

## STANDARD FEATURES

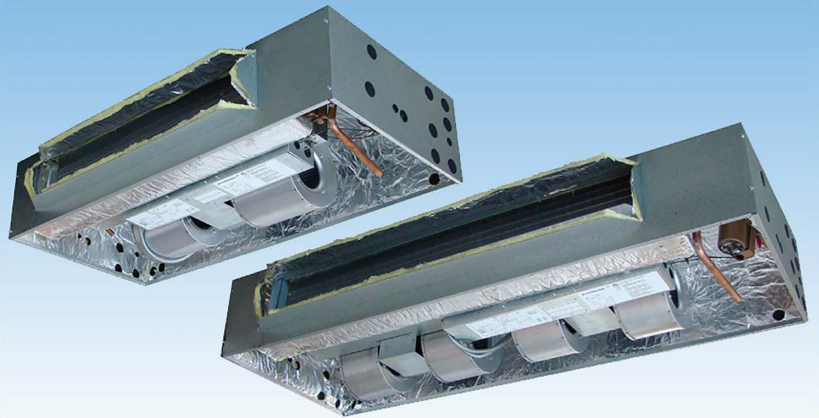
- Factory installed service switch
- Factory installed freeze protection
- Rifled copper tube/enhanced aluminum fins DX and hydronic coils for more efficient heat transfer
- Schrader valve on DX and hydronic coils for "hisstest" leak check
- Low leak cabinet design\*

## ■ APPLICATION VERSATILITY

Built-in mounting tabs for ceiling or fur-down mounting. Compatible with most brands of air conditioners and heat pumps. Optional louvered ceiling access panel has separate frame that attached to ceiling joists. Optional solid ceiling panel available for use with ducted return. Less than 2% air leakage when tested in accordance with ASHRAE standard 193. Fully insulated galvanized steel cabinet with knockout for ducted return.

## ■ MOTOR

Direct drive blowers circulate air quietly and efficiently. Multiple speeds allow for precise air volume selection. Air moving system is plated mounted to allow for easy removal and service.



## ■ ELECTRONIC CONTROLS

Electronic board controls the functioning of system, increasing system reliability. Standard factory installed freeze stat wired into circulating pump control circuit. Standard factory installed fan time delay relay for increased efficiency and maximize capacity. Standard factory installed pump cycle timer circulates hot water every four hours to prevent coil freeze during off-cycle.

## ■ DIRECT EXPANSION/HYDRONIC COILS

High efficiency rifled copper tube and enhanced aluminum fins provide maximum heat transfer. All coils are immersion tested at 500 PSI and nitrogen charged for maximum reliability. Schrader valve allows for "hiss-test" pre-installation pressure test. Available with factory installed orifice or TXV. Primary and secondary DX condensate drain with 3/4" NPT connections. Powder-painted galvanized drain pan. Certified for use with R22 or R410A. Lead free construction. Hydronic coils suitable for potable water applications.



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## HEATING AND COOLING PERFORMANCE & ELECTRICAL DATA

MODEL	NOMINAL COOLING (BTUS)	PERFORMANCE DATA					ELECTRICAL DATA	
		HEATING GPM	PRESS. DROP (FT. WTR)	BTU (1000) AT ENTERING WATER TEMPERATURE °F			MINIMUM CIRCUIT AMPACITY (MCA)	MAX BREAKER OR FUSE SIZE
				120	140	180		
PBT26	24,000	2	2.2	15.7	22.0	34.6	5.38	15
		3	4.3	17.0	23.8	37.4		
		4	6.8	17.6	24.7	38.8		
PBT32	30,000	2	2.2	17.3	24.2	38.0	6.38	15
		3	4.3	18.8	26.3	41.3		
		4	6.8	19.6	27.5	43.2		
PBT33	36,000	2	2.8	19.7	27.6	43.4	6.38	15
		3	5.4	21.7	30.4	47.8		
		4	8.5	22.8	31.9	50.1		
PBT37	36,000	2	2.8	19.7	27.6	43.4	6.38	15
		3	5.4	21.7	30.4	47.8		
		4	8.5	22.8	31.9	50.1		

NOTES: Heat BTUH is at 70 degree EAT. 120 degree and 180 degree data is supplied for boiler applications. Heat BTUH output will not exceed output of water heater.

## BLOWER DATA

MODEL	RPM	AMP	VOLT	HP	CFM VS. STATIC PRESSURE				
					0.1	0.2	0.3	0.4	0.5
PBS 26	HIGH	3.8	120	1/3	975	900	830	745	680
	LOW				900	840	770	690	620
PBS 32	HIGH	2.3	120	1/5 (2)	1055	965	865	755	605
	LOW				1015	915	815	705	565
PBS 33	HIGH	2.3	120	1/5 (2)	1235	1150	1040	925	830
	LOW				1050	980	900	800	680
PBS 37	HIGH	2.3	120	1/5 (2)	1235	1150	1040	925	830
	LOW				1050	980	900	800	680

Units should not be applied to a system with less than 350 CFM/Ton airflow.

Add 0.05 static when enclosure and/or ceiling panel are used.

PBT 32, PBT 33 and PBT 37 have two motors and four blowers.

## AIR HANDLER CHASSIS NOMENCLATURE

P	B	S	18	G	-001
AspenPRO Air Handler	<u>Voltage</u> B = 120V PSC Motor	<u>Configuration</u> T = Cased Ceiling Mount	<u>Nominal Tonnage</u> (KBTUH)	<u>Metering Device</u> 4 = R410A non-bleed A/C or H/P TXV 6 = R410A 20% bleed A/C or H/P TXV B = R22 20% bleed A/C or H/P TXV F = R22 Flo-rater G = R410A Flo-rater X = R22 non-bleed A/C or H/P TXV	Option Code

## HYDRONIC HEAT KIT NOMENCLATURE

Z	T	2	S	P
Water Heat Hydronic	Terminal Block	2 = 2 Row Hydronic Coil	<u>PBT - 26/32 - M</u> <u>PBT 33/37 - L</u>	<u>P = Taco 006 Bronze Pump</u> <u>8 = Taco 008 Bronze Pump</u> <u>L = Less Pump</u>

## VERSATILITY

Equipped with hidden frame feature. Fastens to the outside wall surface and does not have to perfectly match the hole opening. Frame screws are not visible after installation. Available in either solid (S) or louvered (L) style.

## MATERIALS

Galvanized steel construction with smooth powder paint finish.

## FILTER

20" x 20" x 1" field supplied.

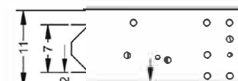
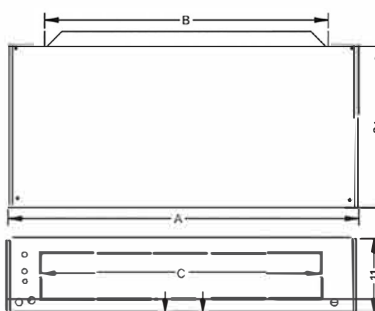
## WARRANTY

ONE YEAR LIMITED PARTS WARRANTY

### ENCLOSURE DIMENSIONS

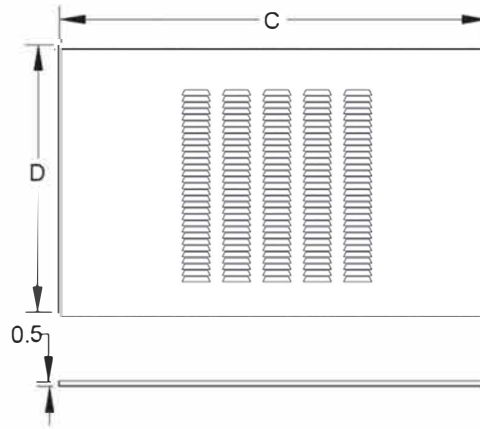
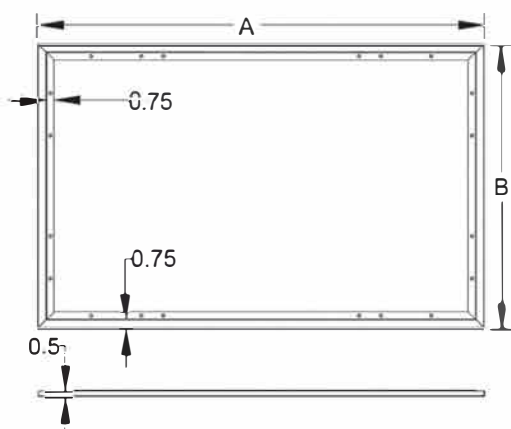
UNIT MODEL	A"	B"	C"	WEIGHT (LBS)	SKID QTY.
PBT 26	60	42	47	135	5
PBT 32	60	42	47	155	4
PBT 33-37	67	48	55	165	4

Copper stub out diameter: DX - Suction: 3/4", Liquid: 3/8";  
Hydronic - Water In/Out: 7/8"



### ACCESS DOOR DIMENSIONS

FOR USE WITH	PANEL MODEL	PBS ACCESS DOOR AND FRAME				FILTERS (QTY)
		A"	B"	C"	D"	
PBT 26/32	GAD-6(S/L)	63-1/2	27 1/2	61-1/2	26	2
PBT 33/37	GAD-4(S/L)	70-1/2	27 1/2	68-1/2	26	2



### CAP KIT PART NUMBER

PART NUMBER	MODEL NUMBER	ENCLOSURE SIZE
CAP-7	PBT 26/32	60"X24"X11"
CAP-8	PBT 33/37	67"X24"X11"

Note: CAP kit is an insulated panel that covers the entire bottom opening and is utilized for optional ducted return configuration



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