CAP FRAC 03 and 05 AIR COOLED CHILLER 1 & 3 PHASE

MADE IN USA

Commercial Aire Products
501 Terminal Road, Fort Worth, TX 76106
Tel.: 817-624-0820 ext 290

Standard Features
CAP's horizontal air discharge chillers Single Phase and three phase model **"FRAC-03, and 05" are cost efficient packaged chillers,** environmentally friendly R410A refrigerant. They include Bristol Compressors that are the choice in a wide range of applications that demand efficiency and reliability with low sound output, high efficiency coaxial counter balanced evaporators and copper tube aluminum fins air cooled condensers. A water pump is installed in the unit making this unit one of the most cost efficient for air conditioning applications. Many factory mounted options save expensive field labor and material, resulting in lower first costs.

Water Pump
The chiller water pump is carefully selected to fit most residential and small commercial applications, it's fully installed, piped and wired to the control box and piped to chiller system to save expensive field installation costs.

Condenser Air Fan
Unit is also designed to start and operate in higher ambient conditions, up to 115 degrees ºF. The large surface, low speed, propeller fan for horizontal air flow fan is statically and dynamically balanced and operates at low tip speeds for low vibration and low sound levels.

Fan Guard:
Fan guard is chrome-plated to meet OSHA requirements.

Refrigerant Circuit
Each unit has one refrigerant circuit, with one single speed Reciprocating compressor. The refrigerant circuit includes compressor suction and discharge service ports, filter dryer, liquid line sight glass and expansion valve.

Power Connection
Unit is provided with single-point electrical power connection. Field wiring connection point will be at the outside junction box.

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CAP CHILLER NOMENCLATURE

F	R	C	A	S	-	05	A	S	S	O	H	G
REFR	COMPR	U TYPE	C/ TYPE	C /SPEED		CAP	VOLT	C /FAN	W PUMP	TXV	OPT	OPT

REFRIGERANT TYPE

	R-
F	410A
M	R-32
	R-134A
B	
X	SPECIAL

COMPRESSOR TYPE

S	SCROLL
R	RECIP
W	SCREW

UNIT TYPE

C	CHILLER
H	HEAT PUMP

CONDENSER TYPE

A	AIR COOLED

COMPRESSOR SPEED

S	SINGLE SPEED
	VARIABLE
V	SPEED
F	FOUR SPEED

UNIT CAPACITY (TON)

03	3 TON (36,000 BTUH NOMINAL)
04	4 TON (48,000 BTUH NOMINAL)
	5 TON (60,000 BTUH
05	NOMINAL)

VOLTAGE

A	208/230/1/60
B	208/230/3/60
C	460/3/60
D	380/3/50
E	575/3/60

CONDENSER FAN OPTIONS

S	SINGLE SPEED
	VARIABLE
V	SPEED
F	FOUR SPEED

WATER PUMP OPTIONS

S	SINGLE SPEED
	VARIABLE
V	SPEED

EXPANSION VALVE OPTIONS

E	ELECTRONIC EXPANSION VALVE - **EEV**
T	THERMOSTATIC EXPANSION VALVE - **TXV**

OPTIONAL ACCESSORIES

O	NO OPTIONS
	EXTERNAL DOMESTIC HOT WATER HEAT
H	RECOVERY

OPTIONAL ACCESSORIES

O	NO OPTIONS
G	INTERNAL GLYCOL HEAT RECOVERY

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Bristol Compressors

Bristol Compressors are the choice in a wide range of applications that demand efficiency and reliability with low sound output. This time proven technology has been enhanced with continuous improvements and innovation in materials, machining, assembly techniques, and quality assurance. Bristol Compressors are durable, robust, and are used world-wide by leading manufacturers in applications across virtually every HVAC-R market segment

Chiller/Evaporator:

Coaxial counter flow high efficiency evaporators are UL listed. The evaporator has a uniquely built direct expansion distributor designed specifically for chillers.

Refrigerant Piping:

Refrigerant circuit includes:

- Liquid line valve with charging connection
- Sealed Filter drier
- Suction and discharge service connections
- Sight glass
- Expansion valve

Control Center:

All power, operating and safety controls are mounted in a NEMA 3R enclosure.

- Single point electrical terminal block
- Compressors Contactor
- Fan Motor Relay
- High pressure switch per circuit with manual reset
- Low pressure switch per circuit with auto reset
- Chiller digital controller

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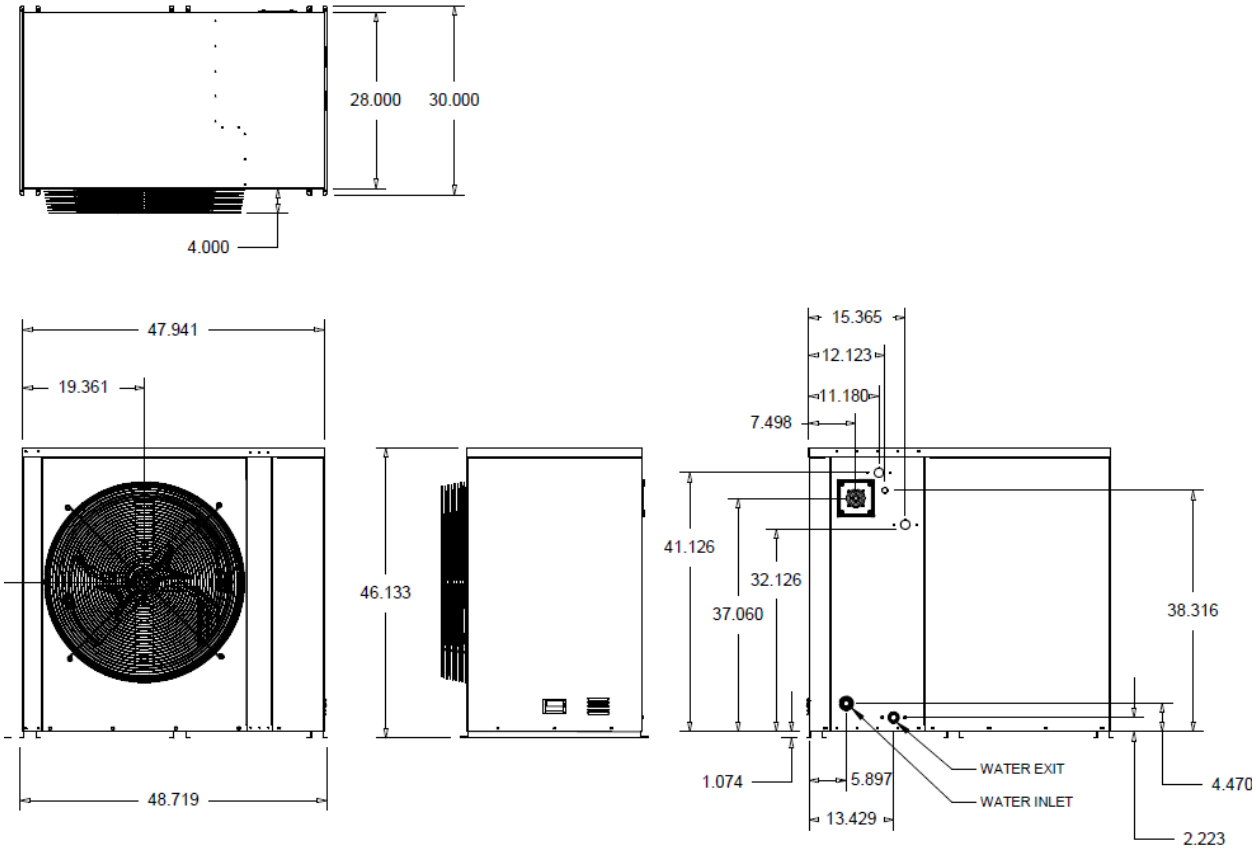
UNIT DIMESIONS FRAC-03 and 05



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FRAC 03 and 05 Capacity

FRAC Size	CAPACITY Tons.	CAPACITY Kw	Compressor (Kw)	Number of Compressors	Number of Fans	Fans (Kw)	FL EFF EER	FL EFF COP	IPLV EER	IPLV FSACS	Tons	Aguar Kw
03	3.4	4.5	4.5	1	1	0.34	9.92		12.45			
05	5.21	6.6	3.1	1	1	0.34	9.75		12.35			

This unit is rated in accordance with AHRI-550/590 standard rating conditions; options are not included in these ratings

EER Energy Efficiency Ratio

COP Coefficient of Performance

IPLV Integrated Part Load Value

FRAC 03 and 05 Dimensions & Weights

FRAC Size	Weight Dry LB	Weight Dry Kg	Length Inches	Length mm	Width Inches	Width mm	Height Inches	Height mm	Shipping Weight lb	Shipping Weight Kg	Shipping Volume Cu ft	Shipping Volume Cu mts
03	490	222.7	48.00	1219	28.146	715	48.00	1219	521	236.8	40	1.13
05	525	238.6	48.00	1219	28.146	715	48.00	1219	556	252.8	40	1.13

FSAC 03, and 05 ELECTRICAL DATA

UNIT FSAC SIZE	COMPRESSOR DATA RLA	COMPRESSOR DATA LRA	FAN DATA FLA	FAN DATA RPM	PUMP DATA FLA	PUMP DATA SIZE	PUMP DATA RLA	PUMP DATA LRA	UNIT VOLTAGE FLA	BREAKER SIZE RPM	BREAKER SIZE FLA
03-A	19.2	85	1.03	3450	3.8	3450	15.0	60	208/230/1/60	30	48
03-B	8.5	48	1.03	3450	3.8	3450	15.0	60	208/230/3/60	20	30
05-A	29.7	110	1.03	3450	3.8	3450	15.0	60	208/230/1/60	40	70
05-B	14.8	88	1.03	3450	3.8	3450	15.0	60	208/230/3/60	30	50
05-C	7.6	44	1.03	3450	3.8	3450	15.0	60	460/3/60	20	25

FRAC 005 COOLING PERFORMANCE DATA

LWT ºF	ENTERING AIR TEMPERATURE 85 º F TONS	85 º F MBTU	85 º F GPM	95 º F TONS	95 º F MBTU	95 º F GPM	100 º F TONS	100 º F MBTU	100 º F GPM	110 º F TONS	110 º F MBTU	110 º F GPM
35	4.92	59.07		4.78	57.41		4.65	55.81		4.52	54.24	
40	5.06	60.77		4.92	59.07		4.78	57.41		4.65	55.81	
42	5.21	62.52		5.06	60.77		4.92	59.07		4.78	57.41	
45	5.36	64.32	12.0	5.21	62.52	12.0	5.06	60.77	12.0	4.92	59.07	12.0
46	5.51	66.17		5.36	64.32		5.21	62.52		5.06	60.77	
48	5.67	68.08		5.51	66.17		5.36	64.32		5.21	62.52	
50	5.84	70.04		5.67	68.08		5.51	66.17		5.36	64.32	
55	6.00	72.06		5.84	70.04		5.67	68.08		5.51	66.17	
60	6.18	74.13		6.00	72.06		5.84	70.04		5.67	68.08	

FRAC 003 COOLING PERFORMANCE DATA

LWT ºF	ENTERING AIR TEMPERATURE 85 º F TONS	85 º F MBTU	85 º F GPM	95 º F TONS	95 º F MBTU	95 º F GPM	100 º F TONS	100 º F MBTU	100 º F GPM	110 º F TONS	110 º F MBTU	110 º F GPM
35	2.78	33.39		2.70	32.46		2.63	31.55		2.56	30.66	
40	2.86	34.35		2.78	33.39		2.70	32.46		2.63	31.55	
42	2.95	35.34		2.86	34.35		2.78	33.39		2.70	32.46	
45	3.03	36.36	7.5	2.95	35.34	7.5	2.86	34.35	7.5	2.78	33.39	7.5
46	3.12	37.41		3.03	36.36		2.95	35.34		2.86	34.35	
48	3.21	38.48		3.12	37.41		3.03	36.36		2.95	35.34	
50	3.30	39.59		3.21	38.48		3.12	37.41		3.03	36.36	
55	3.39	40.73		3.30	39.59		3.21	38.48		3.12	37.41	
60	3.49	41.91		3.39	40.73		3.30	39.59		3.21	38.48	

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