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Notes



SPLIT SYSTEM AIR CONDITIONERS

13 SEER - R-410A - 1 PHASE 1.5 THRU 5 NOMINAL TONS MODELS: J4AC3018 - 60A1000AA









CONDENSERS

DESCRIPTION

The Oxbox line of heating and cooling products offers you flexible and affordable options for your HVAC equipment needs. Oxbox air conditioners have been tested to perform even in the hottest climates, with equipment that's quiet, dependable, and affordable.

WARRANTY

Our innovative 1-5-10 no-registration warranty gives you maximum peace of mind. Plus, every piece of equipment is warranted to the home, not the homeowner—providing an extra measure of coverage when it comes time to sell your home.

1 Year: Unit Replacement

Compressors or coils fail, complete unit replacement.

5 Years: Standard Parts Warranty10 Years: Compressor Replacement

FEATURES

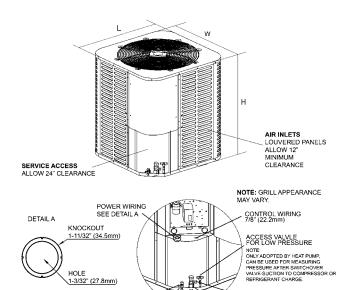
- General The JCA430 is fully charged from the factory. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with air handlers and furnace coils that are AHRI certified. The unit is certified ETL. Exterior is designed for outdoor application.
- Small Footprint Minimum footprint for easier handling, transportation, and installation.
- Casing Unit casing is constructed of heavy gauge, Galvanized steel and painted with a weather resistant powder coat on all grilles, panels, prepaint on all other panels. Salt spray rated to 500 hours.
- Refrigerant Controls Refrigerant system controls include condenser fan and compressor contactor.
- Scroll Compressor Features include low vibration and noise.
- Consenser Coils The outdoor coil provides low airflow resistance and efficient heat flow transfer
- Rugged Coil Protection Coils are protected from mechanical damage by a proven stamped steel coil guard design.
- Environmentally Friendly CFC-free R-410A refrigerant delivers environmentally friendly performance with zero ozone depletion.
- Top Discharge Warm air is blown up, away from the structure and any landscaping and allows compact location on multi-unit applications.
- Low Operating Sound Levels The sturdy cabinet and top design provides sound performance of 76 dBA or lower.
- Agency Listed Safety certified by ETL to UL 1995. Performance certified to AHRI Standard 210/240 in accordance with the Unitary Small Equipment certification program.



CONDENSERS

PHYSICAL AND ELECTRICAL DATA

MODEL		J4AC18A 1000AA	J4AC24A 1000AA	J4AC30A 1000AA	J4AC36A 1000AA	J4AC42A 1000AA	J4AC48A 1000AA	J4AC60B 1000AA	
Unit Supply Vo	oltage	208-230V, 1φ, 60Hz							
Normal Voltage	e Range				187 to 252				
Minimum Circu	uit Ampacity	11.9	14.4	15.2	19.9	21.6	32.0	28.6	
Max. Overcurr	ent Device Amps	20	25	25	35	35	50	50	
Min. Overcurre	ent Device Amps	20	25	25	35	35	50	35	
Compressor T	ype	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	
Compressor	Rated Load	9.0	10.9	11.6	15.3	15.9	24.2	22.3	
Amps	Locked Rotor	39.0	53.0	59.0	70.0	112.3	100	127.9	
Crankcase Heater		No	No	No	No	No	No	No	
Factory External Discharge Muffler		No	No	No	No	No	No	No	
HS Kit Required with TXV		Yes	Yes	Yes	Yes	Yes	No	No	
Fan Diameter	Inches	17-3/4	17-3/4	23-5/8	18-7/8	23	23	23-1/16	
	Rated HP	1/12	1/12	1/8	1/8	1/3	1/3	1/3	
F N4-4	Rated Load Amps	0.60	0.70	0.70	0.70	1.70	1.70	1.70	
Fan Motor	Nominal RPM	1075	1075	1075	1075	1075	1075	1090	
	Nominal CFM	1600	1800	2700	2156	3700	4000	4250	
	Face Area Sq. Ft.	8.89	10.05	12.84	9.74	17	17.42	17.22	
Coil	Rows Deep	2	2	2	2	2	2	2	
	Fins / Inches	19	17	19	21	21	19	20	
Liquid Line Se	t OD (Field Installed)	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
Vapor Line Se	t OD (Field Installed)	3/4	3/4	3/4	3/4	3/4	7/8	7/8	
Unit Charge (L	.bs Oz.)	4 - 7	4 - 13	4 - 7	4 - 5	7 - 16	8 - 1	9 - 14	
Charge Per Fo	oot, Oz.	0.62	0.62	0.62	0.62	0.67	0.67	0.75	
Operating Weight Lbs.		123	126	143	132	190	200	196	



LIQUID LINE CONNECTION

SUCTION LINE SERVICE FITTING

HOLE 1-3/32" (27.8mm)

	Dimensions (Inches)			_	Connection alve Size	
Unit Model	L W H			Liquid	Vapor	
J4AC3018A1000A	22	22	25			
J4AC3024A1000A	22	22	25		3/4	
J4AC3030A1000A	29	29	25			
J4AC3036A1000A	24	24	25	3/8		
J4AC3042A1000A	28	28	33			
J4AC3048A1000A	28	28	30		7/8	
J4AC3060A1000A	28	28	34h		1/0	



RAC SERIES
SPLIT-SYSTEM AIR
CONDITIONERS
13 SEER – R-410A
1.5 THRU 5 NOMINAL TONS

MODELS: RAC 18 THRU 60



DESCRIPTION

The 13 SEER Series unit is the outdoor part of a versatile climate system. It is designed with a matching indoor coil component from Johnson Controls Unitary Products. Available for typical applications this climate system is supported with accessories and documents to serve specific functions.

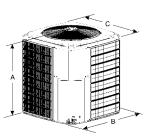
WARRANTY

Standard 5-Years limited parts warranty.
Standard 5-Years limited compressor warranty.
Extended 10-Years limited parts and compressor warranty
when product is registered online within 90 days of purchase for
replacement or closing for new home construction.

FEATURES

- Small Footprint Extremely lightweight with a compact footprint, it is a perfect fit for any application.
- Quality Condenser Coils The coil is constructed of aluminum microchannel tubing and enhanced aluminum fins for reduced size and increased officials.
- Coil Protection Coils are protected from damage by a slotted, stamped steel coil guard.
- Optional Factory E-Coat Available ElectroFin® or factory approved equivalent (contact the factory for details) coated coil on select models.
- Protected Compressor Compressors are protected internally by a high pressure relief valve and a temperature sensor, and

- externally by the system high pressure switch. A factory installed liquid line filter-drier further protects the compressor against moisture and debris.
- Environmentally Friendly Refrigerant The R-410A refrigerant delivers environmentally friendly performance with zero ozone depletion.
- Durable Finish An automotive quality finish provides the ultimate protection from harmful UV rays and rust-creep, ensuring a long-lasting, high quality apprearance. A powder paint top coat is applied over a baked on primer using a galvanized, zinc coated steel base material.
- Lower Installed Cost Installation time and costs are reduced by easy power and control wiring connections. The unit is factory charged for a 15-foot lineset. The small base dimension means less space is required on the ground or roof.
- Top Discharge Warm air from the top mounted fan is blown up, away fro0m the structure and any landscaping. This allows compact location on multi-unit applications.
- Low Operating Sound Levels The upward air flow carries the normal operating noise away from the living area. The rigid top panel effectively isolates any motor sound. Isolator mounted compressor and the condenser coil muffle the normal fan motor and compressor operating sounds.
- Low Maintenance Long life, permanently lubricated motorbearings need no annual servicing.
- Easy Service Access Fully exposed refrigerant connections and a single panel covering the electrical controls make for easy servicing of the unit.
- Secured Service Valves Secured, re-usable service valves are provided on both the liquid and vapor sweat connections for ease of evacuating and charging.



Unit		Dimensions (Inches)	Refrigerant Connection Service Valve Size		
Model			С	Liquid	Vapor
18	28-1/4	24	24		
24	28-1/4	24	24		3/4"
30	28-1/4	24	24		3/4
36	28-1/4	29-1/2	29-1/2	3/8"	
42	30-1/4	29-1/2	29-1/2		
48	30-1/4	29-1/2	29-1/2		7/8"
60	32-1/4	34	34		

PHYSICAL AND ELECTRICAL DATA

MODEL		RAC13J18 4S21	RAC13J24 4S21	RAC13J30 4S21	RAC13J36 4S21	RAC13J42 4S21	RAC13J48 4S21	RAC13J60 4S21		
Unit Supply Vo	ltage	208-230V, 10, 60Hz								
Normal Voltage	e Range				187 to 252					
Minimum Circu	it Ampacity	10.0	12.4	14.7	17.9	21.5	21.1	34.5		
Max. Overcurre	ent Device Amps	15	20	25	30	35	35	60		
Min. Overcurre	nt Device Amps	15	15	15	20	25	25	35		
Campragas	Type	Rotary	Recip	Recip	Recip	Recip	Recip	Scroll		
Compressor	Rated Load	7.6	9.3	10.6	13.1	16	15.7	26.4		
Amps	Locked Rotor	40	43	54	74	88	84	134		
Crankcase Heater		No	No	No	No	No	No	No		
Factory External Discharge Muffler		No	No	No	No	No	Yes	No		
Factory External Check Valve		No	No	No	No	No	No	No		
HS Kit Require	d with TXV ⁴	Yes	Yes	Yes	Yes	Yes	Yes	No		
Fan Diameter I	nches	17.5	17.5	17.5	22.0	22.0	22.0	24.0		
	Rated HP	1/12	1/8	1/4	1/4	1/4	1/4	1/4		
Fan Motor	Rated Load Amps	0.5	0.8	1.4	1.5	1.5	1.5	1.5		
ran wotor	Nominal RPM	1100	1075	1100	850	850	850	850		
	Nominal CFM	1400	1950	2050	3200	3050	2950	3400		
	Face Area Sq. Ft.	9.60	9.60	9.60	13.07	14.16	14.16	18.68		
Coil	Rows Deep	1	1	1	1	1	1	1		
	Fin / Inches	23	23	23	23	23	23	23		
Liquid Line Set	OD (Field Installed)	3/8	3/8	3/8	3/8	3/8	3/8	3/8		
Vapor Line Set	OD (Field Installed)	5/8	3/4	3/4	3/4	7/8	7/8	7/8		
Unit Charge (LI	bs Oz.)	3 - 3	3 - 13	3 - 14	4 - 9	4 - 10	4 - 9	5 - 8		
Charge Per Fo	ot, Oz.	0.58	0.62	0.62	0.62	0.67	0.67	0.67		
Operating Weig	ght Lbs.	97	129	131	145	164	173	220		

ADD-ON COILS

FOR USE WITH SPLIT-SYSTEM COOLING MODELS: CF, CM, CU

600 - 2000 CFM 1.5 - 5 TON COILS







MULTI-POSITION FULL CASED CM

UPFLOW/DOWNFLOW FULL CASED CF

UNCASED UPFLOW

DESCRIPTION

MaxAlloy™ aluminum indoor coils are specially designed to be installed with UPG furnaces or modular air handlers as part of a matched air conditioning or heat pump system.

UPG indoor coils can be applied with indoor orifices and/or TXVs according to the application. Most indoor coil models are available as "flex" coils for installation of the specific expansion device in the field.

CF series full cased coils are suitable for upflow or downflow applications.

CM series full cased coils have the added flexibility of multi-position installation. They are shipped as upflow / horizontal left and are easily convertible to downflow / horizontal right.

 $\ensuremath{\mathsf{CU}}$ series uncased coils are designed for upflow-only applications on top of furnaces.

If CF or CM coils are installed without the casing, a Diverter Shroud kit is required, as shown on the accessories page. CU coils include a factory-installed Diverter Shroud.

FEATURES

Cabinet – Constructed of heavy gauge galvanized steel with a primer and finish coat providing a high quality corrosion resis-tant finish.

MaxAlloy™ Coil – Long life aluminum coils built to deliver last-ing performance, efficiency and reliability.



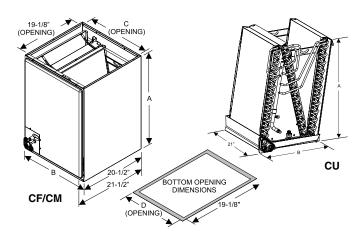
UPFLOW/DOWNFLOW FULL CASED

The Oxbox line of heating and cooling products offer you flexible and affordable options for your HVAC equipment needs. The function of indoor air coils is simple: heating or cooling your system's air and removing humidity. Oxbox indoor air coils make that process as effective as possible, maximizing the efficiency of all system components—and keeping you as comfortable as possible in all seasons.



J4GXC

	Dimer	nsions	Refrigerant Connections		
Models	Height	Width	Line Size		
	Α	В	Liquid	Vapor	
J4GXCA003	20	14.5			
J4GXCA004	20	17.5		3/4	
J4GXCA007	26	21	3/8		
J4GXCA010	30	24-1/2		7/8	



Dimensions - CF Upflow/Downflow Full Cased Coils

		Dime	nsions		Refrigerant	
Models ¹	Height	eight Width Opening Widths			ections	
	Α	В	С	D	Liquid	Vapor
CF30A	25-1/2	14-1/2	13-1/2	13-1/2		
CF36B	25-5/8	17-1/2	16-1/2	16-1/2		3/4
CF36C	23	21	20	20		
CF48C	27	21	20	20	3/8	
CF60C	33	21	20	20		7/8
CF60D	32-3/4	24-1/2	23-1/2	23-1/2		
CF64D	32-3/4	24-1/2	23-1/2	23-1/2		

Dimensions - CM Multi-Position Full Cased Coils

		Dimo	nsions			
		Dillie	Refrigerant			
Models	Height	Width	Opening	Widths	Connections	
	Α	В	С	D	Liquid	Vapor
CM24A	19-1/2	14-1/2	13-1/2	13-1/2		
CM24B	19	17-1/2	16-1/2	16-1/2		
CM30A	25-1/2	14-1/2	13-1/2	13-1/2		3/4
CM30B	23	17-1/2	16-1/2	16-1/2		
CM36B	25-5/8	17-1/2	16-1/2	16-1/2	3/8	
CM48C	33	21	20	20		
CM48D	32-3/4	24-1/2	23-1/2	23-1/2		7/8
CM60C	33	21	20	20		
CM60D	32-3/4	24-1/2	23-1/2	23-1/2		

Dimensions - CU Uncased Coils

	Dimer	nsions	Refrigerant Connections		
Models	Height	Width	Line	Size	
	Α	В	Liquid	Vapor	
CU24A	15-3/8	13-3/8			
CU24B	15-1/4	16-3/8			
CU30B	19-1/2	16-3/8		3/4	
CU36B	21-1/2	16-3/8	3/8		
CU36C	21-1/8	19-7/8			
CU42C	23-1/8	19-7/8			
CU48C	25-1/8	19-7/8		7/8	
CU60C	29-1/4	19-7/8			



FOR USE WITH SPLIT-SYSTEM COOLING & HEAT PUMPS

MODELS: J4AH SERIES







SINGLE PIECE PSC AIR HANDLERS

DESCRIPTION

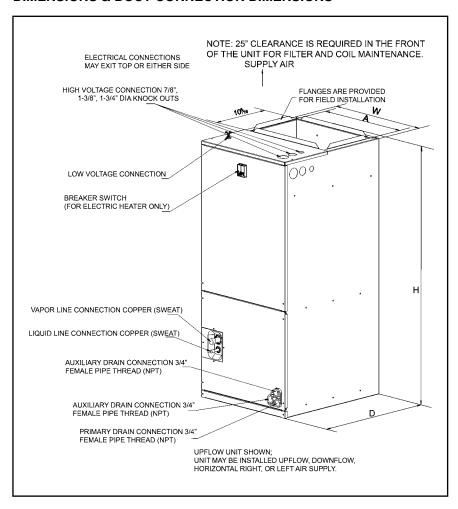
The Oxbox fan coil line offers you flexible and affordable options for your HVAC equipment needs. It's also the ultimate in application flexibility. This unit may be used for upflow, downflow, horizontal right, or horizontal left applications.

- Unique Cabinet Design-Metal shell and glass cotton thermal insulation layer
- Multi-Position UP/Down Flow Horizontal Left /Right
- Braze in Refrigerant Connection
- Primary/Secondary Condensate Connections
- Blower with Integrated Slide Deck for Easy Removal
- Inner-groove aluminum tube and high-efficiency aluminumfin Coil with Integrated Slide Deck for Easy Removal
- More auxiliary Electric Heaters optional
- PSC 3 Speed Motor
- High Efficiency
- Integrated Horizontal Drain pans and metal Vertical Drain
- Fused 24V Power
- Suitable for Manufactured/Mobile Home Use.

WARRANTY

Standard 5-year limited parts warranty.

DIMENSIONS & DUCT CONNECTION DIMENSIONS





SINGLE PIECE PSC AIR HANDLERS

ELECTRICAL DATA FOR SINGLE SOURCE POWER SUPPLY: 208/230-1-60

			Field Wiring					
Air Handler	Heater	Heater	Min. Circ	uit Ampacity	M	IOP. ¹		
Models	Models	KW	208V	230V	208V	230V		
	JAYHTR1A05BRKR	5	24.4	27.9	25	25		
18	JAYHTR1A08BRKR	7.5	35.7	40.9	40	45		
	JAYHTR1A10BRKR	10	47	53.9	50	60		
	JAYHTR1A05BRKR	5	25.9	29.4	30	30		
24	JAYHTR1A08BRKR	7.5	37.2	42.4	40	45		
	JAYHTR1A10BRKR	10	55.4	55.4	50	60		
	JAYHTR1A05BRKR	5	25.5	29	30	35		
30	JAYHTR1A08BRKR	7.5	36.8	42	40	45		
30	JAYHTR1A10BRKR	10	48.1	55	50	60		
	JAYHTR1A15BRKR	15	48.1	55	50	60		
	JAYHTR1A05BRKR	5	26.4	29.9	30	30		
	JAYHTR1A08BRKR	7.5	37.7	42.9	40	45		
36	JAYHTR1A10BRKR	10	49	55.9	50	60		
	JAYHTR1A15BRKR	15	49	55.9	50	60		
	JAYHTR1A20BRKR	20	49	55.9	50	60		
	JAYHTR1A05BRKR	5	26.8	30.3	30	35		
	JAYHTR1A08BRKR	7.5	38.1	43.3	40	50		
48C	JAYHTR1A10BRKR	10	49.4	56.3	50	60		
	JAYHTR1A15BRKR	15	49.4	56.3	50	60		
	JAYHTR1A20BRKR	20	49.4	56.3	50	60		
	JAYHTR1A05BRKR	5	28.3	31.8	30	40		
	JAYHTR1A08BRKR	7.5	39.6	44.8	40	45		
60C	JAYHTR1A10BRKR	10	50.9	57.8	60	60		
	JAYHTR1A15BRKR	15	50.9	57.8	60	60		
	JAYHTR1A20BRKR	20	50.9	57.8	60	60		

MOP = Maximum Overcurrent Protection device; must be HACR type service disconnect or time delay fuse. Refer to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.

DIMENSIONS

		Dimensions ¹				Wiring Kno	ckouts		gerant ections
Models				Α	Е	F	G		Size
	Height	Width	Depth			Power (Conduit)	Control (Conduit)	Liquid	Vapor
J4AHP18	41-3/8	18	20-1/2	16	16-1/2				
J4AHP24	41	18	20-1/2	16	16-1/2	1/2"			
J4AHP30	46-1/2	19-5/8	21-5/8	18	18-1/2	1"	1/2	3/8	3/4
J4AHP36	46-1/2	19-1/2	21-5/8	18	18-1/2	1-1/4"			
J4AHP48	54-1/2	22	24	19-1/2	20]			7/0
J4AHP60	54-1/2	22	24	19-1/2	20				7/8

^{1.} All dimensions are in inches..

PHYSICAL & ELECTRICAL DATA

Models		18B	24B	30B	36B	48C	60C
Blower - Diam	neter x Width	10 x 8	10 x 8	10 x 10	10 x 10	10 x 10	10 x 10
Matau	HP	1/8 HP	1/3 HP	1/5 HP	1/2 HP	2/5 HP	1/2 HP
Motor	Nominal RPM	705	1050	903	1050	925	990
Voltage	Voltage		208/230	208/230	208/230	208/230	208/230
Full Load Am	os @230V	1.36	2.6	1.8	3.0	3.01	3.8
	Туре		DISPOS	ABLE OR PERM	IANENT		
Filter ¹	Size	16 x 20 x 1	16 x 20 x 1	18 x 20 x 1	18 x 20 x 1	20 x 22 x 1	20 x 22 x 1
	Permanent Type Kit						
Shipping / Op	erating Weight (lbs.)	117/104	114/101	143/128	141/125	177/159	177/159

^{1.} Field supplied.

Wall-Mounted Heat Pumps E9RKUA / E12RKUA / E18RKUA / E24RKUA

Panasonic



Indoor Unit CS-E9RKUA / CS-E12RKUA



Outdoor Unit CU-E9RKUA / CU-E12RKUA



Wireless Remote Controller (Included)



Wired Remote Controller (CZ-RD516C-1) (Optional)



Indoor Unit CS-E18RKUA / CS-E24RKUA



Controller (Included)



Wired Remote Controller (CZ-RD516C-1) (Optional)

Outdoor Unit CU-E18RKUA / CU-E24RKUA

Model No.			E9	RKUA	E1:	2RKUA	E18	RKUA	E24R	KUA
Unit Model No.			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
			CS-E9RKUAW	CU-E9RKUA	CS-E12RKUAW	CU-E12RKUA	CS-E18RKUAW	CU-E18RKUA	CS-E24RKUAW	CU-E24RKUA
Performance & Electrical F	Ratings									
Capacity	Cooling	Btu/h		100–10,200)		,100–13,300)		800–19,800)	24,000 (5,80	
	Heating	Btu/h	12,000 (4	,100–14,100)	13,800 (4	,100–16,300)	21,600 (5,8	300–22,000)	28,800 (5,80	00-29,200)
Moisture Removal	High	Pints/H	I	1.3		1.7	1	3.0	7.0	-
Dry Air Flow	High	CFM		425		450	6	70	67	0
SEER	Cooling		2	23.0		22.5	1	9.5	19.	.0
EER	Cooling			13.0		12.5		3.2	10.	
HSPF	Heating		1	11.0		11.0	1	0.0	10.	.0
Power Supply	V, Phase, Hz		230/208,	1PH, 60Hz	230V,	1PH, 60Hz	230 / 208V	', 1PH, 60Hz	230 / 208V,	1PH, 60Hz
Running Amps	Cooling	Α	3.2	2/3.6	4.	2 / 4.7	6.3	/ 7.0	10.8 /	11.9
	Heating	Α	5.1	1 / 5.7	5.	6 / 6.3	8.3	/ 9.3	11.4/	12.6
Power Input	Cooling	W	690 (2	250-850)	920 (2	50-1,150)	1,300 (4	30-1,600)	2,350 (430	0-2,720)
	Heating	W	1,120 (2	200–1,500)	1,250 (200–1,710)	1,750 (3	80-1,800)	2,500(380	0-2,660)
Back-up Heater		kW	,						· · ·	-
Fuse or Circuit Breaker C	apacity	Α		15		15	1	20	25	5
eatures										-
Controls			Microp	processor	Micro	processor	Microp	rocessor	Micropro	ocessor
Low Ambient Control			Eqi	uipped	Eq	uipped	Equ	ipped	Equip	ped
Wireless Controller			Inc	luded	In	cluded	Incl	uded	Inclu	ded
Wired Remote Controller	(optional)		CZ-R	D516C-1	CZ-R	ID516C-1	CZ-RE	0516C-1	CZ-RD5	16C-1
Fan Speeds	, ,		5 Spee	eds + Auto	5 spec	eds + Auto	5 Spee	ds + Auto	5 Speeds	s + Auto
Timer			24-hr	Program	24-hr	Program	24-hr l	Program	24-hr Pr	rogram
Air Deflection	Horizontal			anual		lanual		matic	Auton	
	Vertical		Aut	omatic	Au	tomatic	Auto	matic	Auton	natic
Air Filter			Washable + A	nti Microbial Filter	Washable + A	nti Microbial Filter	Washable + An	ti Microbial Filter	Washable + Anti	Microbial Filter
Refrigerant			R-	410A	R	-410A	R-4	110A	R-41	10A
Refrigerant control			Electric Ex	pansion Valve	Electric Ex	pansion Valve	Electric Exc	ansion Valve	Electric Expa	nsion Valve
Operation Sound	In(Hi/Me/Lo/Qt)	dB-A		/25/20		/28/20		39 / 36	48 / 40	
	Outdoor(Hi)	dB-A		47		48		49	51	1
Refrigerant Piping	Type		F	lare		Flare	F	are	Fla	re
	Discharge	inches	-	1/4"		1/4"		/4"	1/4	
	Suction	inches		3/8"		1/2"		/2"	5/8	
Refrigerant Pipe Length		Ft.		x. 65.6		ıx. 65.6		c. 100	Max.	
Elevation Difference	Outdoor Above	Ft.		x. 49.2		ix. 49.2		. 49.2	Max.	
	Outdoor Below	Ft.		x. 49.2		ix. 49.2		. 49.2	Max.	
Dimensions & Weight			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
Height		inches	11-7/16"	21-9/32"	11-7/16"	21-9/32"	11-7/16"	31-5/16"	11-7/16"	31-5/16"
Width		inches	34-9/32"	30-23/32"	34-9/32"	30-23/32"	42-5/32"	34-15/32"	42-5/32"	34-15/32"
Depth		inches	8-7/16"	11-13/32"	8-7/16"	11-13/32"	9-15/32"	12-5/8"	9-15/32"	12-5/8"
			0 .,		0 .,		0 .0,02	0,0	0 .0,02	5,5

^{**} This is maximum elevation difference when the indoor unit is located above the outdoor unit.



PTAC UNITS

PTW-Series

MAIN FEATURES:

- Energy Efficient Operation with High EER (up to 11.6)
- Quiet 2 Fan Motors operation
- Industry Standard size (42' x 16')
- Attractive Appearance
- Easy to Operate Controls
- Solid State Control
- Fan Cycle Switch
- Discrete Electric Resistance Heater
- Freeze Protection
- 2-way Adjustable Discharge Louver
- Easy to Clean Up-front Filters

- Heat Pump Operation as low as 25°F (H/P only)
- Indoor Coil Freeze Control
- Manual Ventilation Control up to 70 CFM
- Weather-Resistant Super Seal
- Front Desk Control Capability
- Remote Control Capability
- Temperature Limiter
- · Load Shedding Control Capability
- Random Restart Circuit
- Automatic Emergency Heat
- Compressor Restart Function



MODEL IDENTIFICATION

PTW 09 2 * C 2

SANYO Packaged Terminal A/C J

Nominal Cooling Capacity 06: 7000BTU 09: 9000BTU

12:12000BTU 15:15000BTU

 Development Series # Unit Type: C: Cooling Only w/E. Heater H: Heat Pump w/E. Heater Heater Size (Refer to the table below)

Voltage:

2: 230/208V 3: 265V

Heater Specification Table

Heater		230 / 208	/ Model			
Designator	Heater Amp	Watt	Min. Amp	BTU/h		
2	11.1/10.0	2550/2090	15	8600/7100		
3	15.0/13.6	3450/2820	20	11700/9600		
5	21.7/19.7	5000/4090	30	17000/13900		
Heater		265V N	V Model			
Designator	Heater Amp	Watt	Min. Amp	BTU/h		
3	11.3	3000	15	10200		
4	15.1	4000	20	13600		
5	18.9	5000	30	17000		

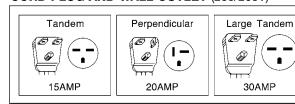
Po

30AMP

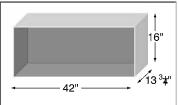
OPENING

Designator	Heater Amp	Watt	Min. Amp	BTU/h
2	11.1/10.0	2550/2090	15	8600/7100
3	15.0/13.6	3450/2820	20	11700/9600
5	21.7/19.7	5000/4090	30	17000/13900
Heater		265V N	lodel	
Designator	Heater Amp	Watt	Min. Amp	BTU/h
3	11.3	3000	15	10200
4	15.1	4000	20	13600
5	18.9	5000	30	17000

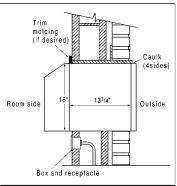
CORD PLUG AND WALL OUTLET (230/208V)



WALL CASE DIMENSIONS



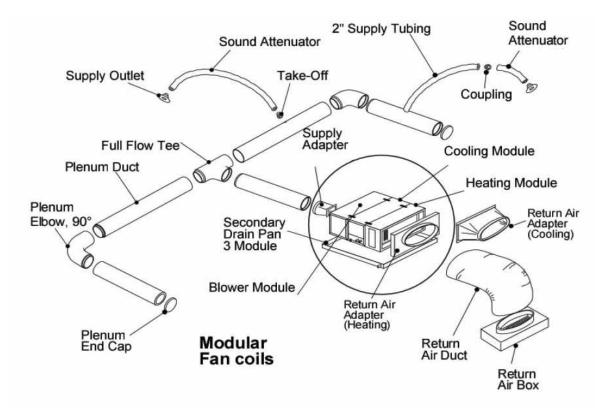
MINIMUM WALL SLEEVE

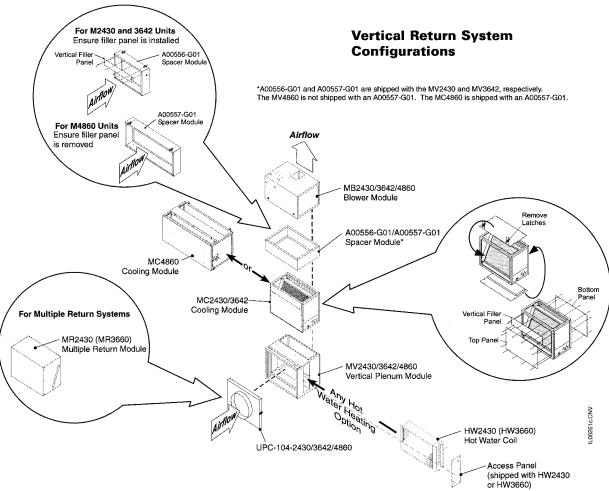


SPECIFICATION

01 2011 107111011								
		COOLING & ELECTRIC HEATING MODEL						
Model Number	PTW0723H5C	PTW0734H5C	PTW0923H5C	PTW0934H5C	PTW1223H5C	PTW1234H5C	PTW1523H5C	PTW1534H5Ch
Voltage Rating	230/208	265	230/208	265	230/208	265	230/208	265
Cooling Capacity (BTU/h)	7100/7000	7100	9100/8900	9100	12000/11900	12000	14200/14000	14200
EER	11.6/11.6	11.6	11.4/11.4	11.4	10.9/10.9	10.9	9.5/9	6 9.5
Power (Watts)	610/600	610	800/780	800	1100/1090	1100	1490/1460	1490
Amp F.L.	2.7/2.9	2.4	3.5/3.8	3.1	4.9/5.4	4.2	6.9/7.2	5.8
Amp L.R.	17	13	22	15	29	24	41	31
CFM Hi	315/285	315	315/285	315	410/370	410	410/370	410
CFM Low	275/235	275	275/235	275	355/320	355	355/320	355
Moisture Removal (Pints/h)	1.8	1.8	2.3	2.3	2.8	2.8	3.8	3.8
Sensible Heat Ratio	0.71	0.71	0.71	0.71	0.69	0.69	0.65	0.65
Vent CFM	65	65	65	65	70	70	70	70
Weight (Ship/Net)	110/95	110/95	110/95	110/95	120/105	120/105	120/105	120/105









The Unico System is a small-duct central heating and air conditioning system that utilizes compact, modular air handlers and flexible 2" supply tubing to supply conditioned air to homes and commercial spaces. The flexible supply tubing snakes through a structure's existing cavities, eliminating the need for extensive remodeling or the construction of soffits or other concealments. This tubing terminates in round, plastic or wood outlets, about the size of a CD, that can be painted or stained to match any décor. A slotted outlet is also available.

The Unico System is 1/3 the size of conventional HVAC systems and can fit into smaller spaces. Once installed, the system is virtually invisible

The modules can be arranged in a horizontal, upflow, or downflow configuration.

Blowers suffixed with an "L" are low speed modules intended for new systems and most replacement applications and provide improved efficiency and radiated sound levels. Units suffixed with an "H" are high-speed modules intended for replacement installations with existing Unico System and other high static ducts that are restrictive and impractical to upgrade.

The Unico System operates at a higher static pressure than conventional duct systems and has unique design and layout requirements for proper air distribution. It is important that the manufacturer's installation instructions be followed exactly to achieve maximum effectiveness.



BLOWER/MODULE

Match blower module with appropriate cooling/heat pump module (and/or heating module if hot water or electric heat are required).

LCB Blower modules have an electronic enhanced control board.

				CFM	Dim	ensions ((ln.)	Shipping
PSC Motor	Usage	Voltage	Tonnage	@1.5" ESP	W	. D	H H	Wgt.
U1218L-1ST2EX	Blower & Coil	208-230/1/60	1 to 1 1/2	370	20	38	12	100
M2430BL2-ST2	Blower	208-230/1/60	2 to 2 1/2	600	25	13.75	17.5	62
M3036BL2-ST2	Blower	208-230/1/60	2 1/2 to 3	1000	30	13.75	17.5	72
M3642BL2-ST2	Blower	208-230/1/60	3 to 3 1/2	1000	38	13.75	17.5	72
M4860BL2-ST2	Blower	208-230/1/60	4 to 5	1250	38	13.75	17.5	85
ECM Motor, SMAF	ECM Motor, SMART Board							
U1218L-1EC1EX	Blower & Coil	115/1/60	1 to 1 1/2	300, 1.2" ESP, 160W	/ 20	38	12	100
U1218L-1EC2EX	Blower & Coil	208-230/1/60	1 to 1 1/2	300, 1.2" ESP, 160W	/ 20	38	12	100
M2430BL1-EC1	Blower	115/1/60	2 to 2 1/2	500, 1.2" ESP, 206W	/ 25	13.75	17.5	62
M2430BL1-EC2	Blower	208-230/1/60	2 to 2 1/2	500, 1.2" ESP, 206W	/ 25	13.75	17.5	62
M3036BL1-EC1	Blower	115/1/60	2 1/2 to 3	500, 1.2" ESP, 206W	/ 30	13.75	17.5	62
M3036BL1-EC2	Blower	208-230/1/60	2 1/2 to 3	500, 1.2" ESP, 206W	/ 30	13.75	17.5	62
M3642BL1-EC1	Blower	115/1/60	3 to 3 1/2	752, 1.2" ESP, 280W	/ 38	13.75	17.5	72
M3642BL1-EC2	Blower	208-230/1/60	3 to 3 1/2	752, 1.2" ESP, 280W	/ 38	13.75	17.5	72
M4860BL1-EC1	Blower	115/1/60	4 to 5	1000, 1.2" ESP, 346\	V 38	13.75	17.5	72
M4860BL1-EC2	Blower	208-230/1/60	4 to 5	1000, 1.2" ESP, 346\	V 38	13.75	17.5	72



COOLING MODULE

These evaporator coil modules can be easily installed with the matching Unico System blower modules. M1218AC includes coil.

• Use unit width as a selection guide

			Dimensions (In.)			Shipping
Part No.	Usage	Tonnage	W	D	Н	Wgt. (Lbs.)
M2430CL1-B	Cooling, R410A	2 to 2 1/2	25	13.75	17.5	48
M3036CL1-B	Cooling, R410A	2 1/2 to 3	30	13.75	17.5	67
MC3642CL1-B	Cooling, R410A	3 to 3 1/2	38	13.75	17.5	74
M4860CL1-B	Cooling, R410A	4 to 5	38	24	17.5	67
M2430CL1-C	Chilled Water Cooling Module	2 to 2-1/2	25	13.75	17.5	48
M3036CL1-C	Chilled Water Cooling Module	2-1/2 to 3	30	13.75	17.5	67
M3642CL1-C	Chilled Water Cooling Module	2-1/2 to 3	38	13.75	17.5	67
M4860CL1-C	Chilled Water Cooling Module	4 TO 5	38	24	17.5	105





HEATING MODULE

Match with appropriate blower module for heating only applications or to improve cooling air flow and provide for future heat capability (sleeve only-add appropriate coil).

				Dimensions (In.)		Shipping	
Part No.	Tonnage	Capacity (BTUH)	Description	w	_ D	. н	Wgt. (Lbs.)
MH2430	2 to 2 1/2	_	Sleeve only	25	12	17 1/2	20
MH3660	3 to 5		Sleeve only	38	12	17 1/2	27
HW2430	2 to 2 1/2	73800	Hot Water Coil only	_	_	_	33
HW3660	3 to 5	120000	Hot Water Coil only	_	_	_	48



ELECTRIC HEAT COIL

The electric furnaces are designed to provide primary heating or auxiliary heating in a heat pump system.

Ships with a 10" round adapter.All units 230v/1ph.

Part No.	K.W.	System Matchup	Min. CFM
WON0202	2	All	200
WON0502	5	All	250
WON0752	7.5	All	300
WON1002	10	2430, 3642, 4860	500
WON1502	15	2430, 3642, 4860	600
WON2002	20	3642,4860	800



HORIZONTAL RETURN PLENUM

Vertical plenum kits include Plenum Module, Spacer Module (except 4860), pleated filter, 2 insulated filler plates and 2 brackets (except 4860), screws, latches latch keepers and insulation strips.

		Dimensions (In.)			
Part No.	Tonnage	L	W	Н	
MR2430	2 to 2 1/2	25	13.75	17.5	
MR3660	3 to 3 1/2	38	13.75	17.5	



RETURN AIR ADAPTER, HEATING MODULE

- Mates directly to heating module
- No additional fabrication
- Use for horizontal or vertical installations
- Height 17.5 in.

Part No.	Usage	Width (In.)	Duct Dia. (In.)
UPC104-1218	1218	20	12
UPC104-2430	2430	25	14
UPC104-3036	3036	30	16
UPC104-3642	3642	38	18
UPC104-4860	4860	38	20



VERTICAL RETURN PLENUM

The MV module features a built in secondary drain pan with a 3/4" PVC socket connection, pleated filter, and place for an optional hot water coil.

		Dimensions (In.)			
Part No.	Tonnage	L	W	Н	
M2430V1	2 to 2 1/2	25	17.5	18.25	
M3036V1	2 1/2 to 3	30	17.5	18.25	
M3642V1	3 to 3 1/2	38	17.5	18.25	
M4860V1	4 to 5	38	23	18.25	



RETURN GRILLE/FILTER

Includes throwaway filter, 2 duct bands and clips.

Note: Unico supplies a return duct system, but field supplied systems are acceptable as long as pressure drop including filter does not exceed .15" W.G.

		Dimensions (In.)				
Part No.	Tonnage	L	W	Duct		
UPC01-1218	1 to 1 1/2	15.5	10	12		
UPC01-2430	2 to 2 1/2	25.25	14.25	14		
UPC01-3036	2 1/2 to 3	30.25	14.25	16		
UPC01-3642	3 to 3 1/2	30.25	14.25	18		
UPC01-4860	4 to 5	30.25	24.25	20		

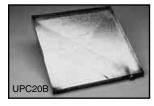


SUPPLY AIR PLENUM ADAPTER

- 1" insulation blanket provided
- Transitions blower module to indicated round duct

Part No.	Usage	Diameter (In.)	Length (In.)
UPC61-1218	1218	7	12
UPC61-2430	2430	7	12
UPC61-3036	3036	9	18
UPC61-3642	3642	9	18
UPC61-4860	4860	10	18

The Unico System



SECONDARY DRAIN PAN

• For added protection against condensate drainage

			Dimensions (In.)		s (In.)
Part No.	Usage	Modules	L	W	Н
UPC94	1218	1	42	24	1.5
UPC20B	2430	2	31.5	29	1.5
UPC20C	2430	3	43.75	29	1.5
UPC27B	3036	2	31.5	34	1.5
UPC27C	3036	3	43.75	34	1.5
UPC24B	3642	2	31.5	42	1.5
UPC24C	3642/4860	3	43.75	42	1.5
UPC24D	4860	3	54	42	1.5



CRIMPING TOOL

Part No.	Description	
UPC54	Clamp Pliers	
UPC55	Hole Cutter	



OUTLET KIT, 2 INCH

Kits include list below plus specific itemized takeoffs.

UPC56B supply outlet (off-white)

UPC53 scrim core clamp "575"

UPC52 supply tube clamp "605"



RETURN AIR ADAPTER, COOLING MODULE

• Includes insulation wrap shipped loose

		Dimensions (In.)			.)
Part No.	Usage	L	Н	Depth	Duct
UPC59-2430	2430	23	13.5	11.5	14
UPC59-3036	3036	27	13.5	11.5	16
UPC59-3642	3642	35	13.5	10	18
UPC59-4860	4860	35	11.5	15	20



RETURN AIR DUCT

• 10 Ft

Part No.	R Value	Usage	Duct Dia. (In.)
UPC04-1218	R4.2	1218	12
UPC04-2430	R4.2	2430	14
UPC04-3036	R4.2	3036	16
UPC04-3642	R4.2	3642	18
UPC04-4860	R4.2	4860	20

UPC51 toggle and screw
UPC35 balancing orifice kit
UPC42 winter shutoff
UPC38 supply duct coupling
Takeoff balancing cap

Part No.	Description	Includes Above Plus
UPC80F-1	Fiberglass Single Outlet Kit UPC23 Fiberglass Takeoff + UPC26C 12' Sound Alternator tube	
UPC89F	Fiberglass Multi-Install Kit	UPC23 Fiberglass Takeoffs
UPC80M-1	Metal Single Outlet Kit	UPC28 Metal Takeoff + UPC26C 12' Sound Alternator tube
UPC89M	Metal Multi-Install Kit	UPC28 Metal Takeoffs



SOUND ATTENUATOR

- Tough aluminized mylar outer wrap
- Spun-bonded nylon and helical wire core
- Fully insulated
- 12' length
- Certified as an air duct per UL181

Part No.	ID (In.)	R-Factor	Pkg. Quantity
UPC26C	2.0	R-3.2	6



SUPPLY TUBING

- Tough aluminized mylar outer wrap
- Two-ply aluminum core
- 25' length
- Certified as an air duct per UL181

Part No.	ID (In.)	R-Factor	Pkg. Quantity
UPC25	2	R-3.2	4





SLOTTED OUTLET

1	3
73	UPC58125

SUPPLY TERMINATOR

Part No.	Description	
UPC67A	90 Slotted Outlet w/hardware	
UPC68	Straight Slotted Outlet w/hardware	

e	
are	

Part No.	Description
UPC56B	Standard 0° Outlet, 2.0"
UPC57	Oak Face 0° Outlet, 2.0"



Part No.

UPC45

UPC51

Part No.

UPC42

OUTLET ACCESSORIES

	0.00
UPC86-5EA	

PLASTER FRAME KIT

Designed for locating outlet before sheetrock is applied (for new construction)

- 2 Left hanger bars
- 2 Right hanger bars
- 1 Plaster frame

Part No.	Includes above plus
UPC86	Plaster Frame Kit, pkg. 5



WINTER SHUTOFF

Description

Outlet Deflector, 2", each

Outlet Toggle and Screw pkg. 10



BALANCING ORIFICE KIT

Takeoff kit includes: 3 disks 15% - 50%

Outlet kit includes: 3 caps 15% - 50%

Part No.	Description
UPC35-15	Takeoff Orifice Kit
UPC36-15	Outlet Orifice Kit



PLENUM TAKE OFF

Description

Winter Supply Shutoff, 2"

- Provides positive connection to ductwork
- UPC23 for round or square duct



SUPPLY DUCT COUPLING

Includes tubing clamps and tape rings

100		
Part No.	Tube Diameter (In.)	Description
UPC23B	2.0	For 1" Fiberglass
LIPC28	2.0	For Metal Includes Tane Ring Gasket



Supply Connector, 2.0", ea

Description



TUBING CLAMP

Part No.	Description
UPC52	Supply Tubing Clamp, 2", pkg 50
UPC53	Sound Atten. Tube Clamp, 2", pkg 50



EXPANSION VALVE, R410A

Part No.	Usage
A00805013	2 Ton, A/C
A00808014	3 to 3 1/2 Ton, A/C
A00805015	4 Ton, A/C
A00808014	3 to 3 1/2 Ton, Heat Pump
A00808015	4 Ton, Heat Pump



CONDENSATE PUMPS

MEDIUM CONDENSATE PUMP - CB15 Series

These are Beckett's most popular and dependable units. They can handle high acidity condensation produced by High Efficiency furnaces. Units include a high impact polystyrene tank with a capacity of 1.7 U.S. quarts, a flame retardant plastic cover, 3/8" O.D. check valve, stainless steel shaft and a 6 ft power cord with a 3 prong plug. Mounting slots are provided on each end of the tank cover. 20 ft of clear vinyl tubing.



Model									Gallons per hour @ 60 Hz & Rated Voltage				Safety	Check	Cord	Shut			
Number	н	W	L	Outlet	Volts	Amps	Watts	H.P.	1'	5'	10'	15'	20'	30'	40'	Switch	Valve	w/plug	Off (ft)
CB151UL	6.25"	5"	11-1/8	3/8" O.D.	115	1.1	60	1/50	85	70	50	_	_	_	_	Y	Y	Υ	15'
CB201TUL*	6.25"	5"	11-1/8	3/8" O.D.	115	2.2	85	1/30	105	95	73	36	_	_	_	Y	Y	Υ	20'

^{*}Includes tubing

COMPACT MODEL LOW PRO® CONDENSATE PUMP CL20 Series

This High Efficiency furnace model is compact and has a Low Profile so that they can be used in applications where space is limited. This unit is capable of handling high acidity condensation. The shut off height for the CL20 is 20 ft. Model includes a built in safety switch, 3/8" O.D. check valve, stainless steel shaft, 6 ft power cord with a 3 prong plug, high impact polystyrene tank and a flame retardant plastic cover.



Model									Gallo	ns pei	hour	@ 60 H	z & Ra	ted Vol	tage	Safety	Check	Cord	Shut
Number	н	W	L	Outlet	Volts	Amps	Watts	H.P.	1'	5'	10'	15'	20'	30'	40'	Switch	Valve	w/plug	Off (ft)
CL201UL	4-3/4"	5"	11-1/8"	3/8" Barb	115	1.95	90	1/30	115	92	62	33	-	-	_	Y	Υ	Υ	20'

LARGE CONDENSATE PUMP - CB22 Series

This large condensate pump is capable of handling high acidity condensation. The shut off height for this model is 22 ft. Model includes a high impact, flame retardant ABS plastic tank with a capacity of one U.S. gallon, a flame retardant plastic motor cover, 3/8" O.D. check valve and stainless steel shaft.



Model									Gallons per hour @ 60 Hz & Rated Voltage					Safety	Check	Cord	Shut		
Number	н	W	L	Outlet	Volts	Amps	Watts	H.P.	1'	5'	10'	15'	20'	30'	40'	Switch	Valve	w/plug	Off (ft)
CB221UL	9-1/4"	6"	12"	3/8" O.D.	115	1.5	120	1/25	108	90	70	45	19	_	_	Y	Y	Y	22'
CB222UL	9-1/4"	6"	12"	3/8" O.D.	230	1.0	120	1/25	108	90	70	45	19			Y	Y	Y	22'

INDUSTRIAL CONDENSATE PUMP - CB50 Series

These are Beckett's Industrial models for your heavy duty pumping applications. They both feature a built in safety switch, a pre-wired terminal block, non-corrosive brass wetted parts and stainless steel shaft. CU55 has a 1/2" O.D. check valve. Model has a high quality painted galvanized steel cover and a high impact polystyrene tank with a capacity of 1 U.S. gallon.



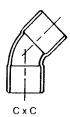


Model									Gallo	ns pei	hour	@ 60 H	z & Ra	ted Vol	tage	Safety	Check	Cord	Shut
Number	н	W	L	Outlet	Volts	Amps	Watts	H.P.	1'	5'	10'	15'	20'	30'	40'	Switch	Valve	w/plug	Off (ft)
CB501UL	10-1/8"	6"	12"	1/2" O.D.	115	4.0	360	1/5	476	441	396	351	306	216	126	Y	Y	Y	48'



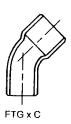
ELBOWS, 45° NO. WE-504, C x C

PART #	SIZE NOMINAL	SIZE O.D.
W3005	1/8"	1/4"
W3012	1/4"	3/8"
W3021	3/8"	1/2"
W3026	1/2"	5/8"
W3030	5/8"	3/4"
W3034	3/4"	7/8"
W3044	1"	1-1/8"
W3050	1-1/4"	1-3/8"
W3055	1-1/2"	1-5/8"
W3059	2"	2-1/8"
W3063	2-1/2"	2-5/8"
W3073	4"	4-1/8"



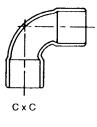
ELBOWS, 45° NO. WE-505, FTG x C

PART #	SIZE NOMINAL	SIZE O.D.
W3312	1/4"	3/8"
W3321	3/8"	1/2"
W3326	1/2"	5/8"
W3330	5/8"	3/4"
W3334	3/4	7/8"
W3344	1"	1-1/8"
W3350	1-1/4"	1-3/8"
W3355	1-1/2"	1-5/8"
W3363	2-1/2"	2-5/8"



ELBOWS, 90° SHORT RADIUS NO. WE-500, C X C

PART #	SIZE NOMINAL	SIZE O.D.
W2003	1/8"	1/4"
W2009	1/4"	3/8"
W2017	3/8"	1/2"
W1622	1/2"	5/8"
W2028	5/8"	3/4"
W1634	3/4"	7/8"
W1647	1"	1-1/8"
W2084	1-1/4"	1-3/8"
W2085	1-1/2"	1-5/8"
W2086	2"	2-1/8"
W2087	2-1/2"	2-5/8"
W2088	3"	3-1/8"
W2089	3-1/2"	3-5/8"



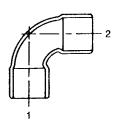
ELBOWS 90° LONG RADIUS

NO. WE-500L, C x C

	,				
PART#	SIZE NOMINAL	SIZE O.D.	PART#	SIZE NOMINAL	SIZE O.D.
W2715 W2710 W2716 W2717 W2722 W2728	1/8" 1/4" 3/8" 1/2" 5/8"	1/4" 5/16" 3/8" 1/2" 5/8" 3/4"	W2734 W2747 W2055 W2063 W2072	3/4" 1" 1-1/4" 1-1/2" 2"	7/8" 1-1/8" 1-3/8" 1-5/8" 2-1/8"

ELBOWS, 90° SHORT RADIUS - REDUCING NO. WE-500R, C x C

PART #	SIZ NOMI		SIZ O.I	
	1	2	1	2
W2011	1/4 x	1/8	3/8 x	1/4
W2019	3/8 x	1/4	1/2 x	3/8
W2023	1/2 x	3/8	5/8 x	1/2
W2025	x	1/4	x	3/8
W2029	5/8 x	1/2	3/4 x	5/8
W2030	x	3/8	x	1/2
W2035	3/4 x	5/8	7/8 x	3/4
W2036	x	1/2	x	5/8
W2037	x	3/8	x	1/2
W2049	1 x	3/4	1-1/8 x	7/8
W2050	x	5/8	x	3/4
W2051	x	1/2	х	5/8
W2056	1-1/4 x	1	1-3/8 x	1-1/8
A2638*	х	3/4	x	7/8
W2077	1- x	1-1/4	1-5/8 x	1-3/8
W2078	2 x	1-1/2	2-1/8 x	1-5/8
A2778*	3 x	2	3-1/8 x	2-1/8

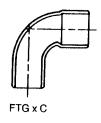


ELBOWS, 90° LONG RADIUS - REDUCING NO. WE-500LR, C x C

PART #	SIZE NOMINAL	SIZE O.D.
W2067	1-1/2 x 3/4	1-5/8 x 7/8

ELBOWS, 90° SHORT RADIUS NO. WE-503, FTG x C

PART #	SIZE NOMINAL	SIZE O.D.
W2312	1/4"	3/8"
W2321	3/8"	1/2"
W1652	1/2"	5/8"
W2330	5/8"	3/4"
W1654	3/4"	7/8"
W2344	1"	1-1/8"
W2384	1-1/4"	1-3/8"
W2385	1-1/2"	1-5/8"
W2386	2"	2-1/8"
W2387	2-1/2"	2-5/8"
W2388	3"	3-1/8"
W2390	4"	4-1/8"



ELBOWS, 90° LONG RADIUS NO. WE-503L, FTG x C

PART #	SIZE NOMINAL	SIZE O.D.
W2822	1/2"	5/8"
W2828	5/8"	3/4"
W2834	3/4"	7/8"
W2847	1"	1-1/8"
W2350	1-1/4"	1-3/8"

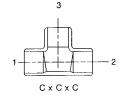
^{*} CAST BRONZE





TEES

TEES - REDUCING ON. WT-600R, RR, BH



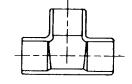
	SIZE				SIZE					
PART #		N	OMINA	۱L				O.D.		
	1		2		3	1		2		3
W40368	1/8	X	1/8	X	1/4	1/4	X	1/4	X	3/8
W4016	1/4	Х	1/4	X	1/2	3/8	Х	3/8	Χ	5/8
W4005				Х	3/8				Х	1/2
W40324 W40330			1/8	X X	1/8 1/4			1/4	X X	1/4 3/8
			1/0					1/4		
W40332 W4015	3/8	х	3/8	X X	1/8 1/2	1/2	х	1/2	X X	1/4 5/8
W4013 W4002	3/6	^	3/0	X	1/4	1/2	^	1/2	X	3/8
W40350				x	1/8				x	1/4
W4003		х	1/4	х	3/8		х	3/8	х	1/2
W4004				х	1/4				х	3/8
W40363		х	1/8	х	3/8		х	1/4	х	1/2
W40366				х	1/8				х	1/4
W4047	1/2	X	1/2	Х	3/4	5/8	Х	5/8	X	7/8
W4029				Х	5/8				Х	3/4
W4007				X	3/8				X	1/2
W4008			- 1-	X	1/4				X	3/8
W4009		Х	3/8	Х	1/2		Х	1/2	Х	5/8
W4010 W4012		х	1/4	X X	3/8 1/2		х	3/8	X X	1/2 5/8
		^	1/4				^	3/0		
W4013 W4046	5/8	х	5/8	X X	1/4 3/4	3/4	х	3/4	X X	3/8 7/8
W4018	3/0	^	3/0	x	1/2	0/4	^	5/4	x	5/8
W4019				x	3/8				x	1/2
W4020				х	1/4				х	3/8
W4021		х	1/2	х	5/8		х	5/8	х	3/4
W4022				х	1/2				х	5/8
W4025		X	3/8	Х	5/8		Х	1/2	X	3/4
W4027	0/4		0/4	X	3/8	7.0		7.0	X	1/2
W4065	3/4	Х	3/4	Х	1	7/8	Х	7/8		1-1/8
W4032				Х	5/8				Х	3/4
W4033				X	1/2				X	5/8
W4034 W4036		х	5/8	X X	3/8 3/4		х	3/4	X X	1/2 7/8
W4036 W4041		X	1/2	X	3/4		X	5/8	X	7/8 7/8
W4043		^	.,_	x	1/2		^	5,0	x	5/8
W4044				х	3/8				х	1/2
W40232		х	3/8	X	3/8		х	1/2	x	1/2
W4049	1	Х	1	х	3/4	1-1/8	х	1-1/8	х	7/8
W4051				х	1/2				х	5/8
W4055		Х	3/4	х	1		X	7/8	х	1-1/8
W4056				Х	3/4				X	7/8
W4059				Х	3/8				Х	1/2
W4061		X	1/2	X	1 3/4		Χ	5/8		1-1/8 7/8
W4062	4 4/4	_	4 4/4	X	3/4	1 0/0	_	1.0/0	X	7/8
W40100	1-1/4	Х	1-1/4		1-1/2 1	1-3/8	Х	1-3/8		
W4069 W4070				X X	ı 3/4				X	1-1/8 7/8
W4070 W4071				X	1/2				X	5/8
W4073		х	1				х	1-1/8		
W4073		Х	1	Х	1-1/4		Х	1-1/8	Х	1-3/8

	SIZE	SIZE
PART #	NOMINAL	O.D.
	1 2 3	1 2 3
W4074	1-1/4 x 1 x 1	1-3/8 x 1-1/8 x 1-1/8
W4075	x 3/4	x 7/8
W4076	x 1/2	x 5/8
W4078	x 3/4 x 1-1/4	x 7/8 x 1-3/8
W4080	x 3/4	x 7/8
W40121 W4085	1-1/2 x 1-1/2 x 2 x 1-1/4	1-5/8 x 1-5/8 x 2-1/8 x 1-3/8
W4086	x 1-1/4 x 1	x 1-3/8
W4087	x 3/4	x 7/8
W4088	x 1/2	x 5/8
W4090	1-1/2 x 1-1/4 x 1-1/2	1-5/8 x 1-3/8 x 1-5/8
W4091	x 1-1/4	x 1-3/8
W4092	x 1	x 1-1/8
W4093	x 3/4	x 7/8
W4095	x 1 x 1-1/2	x 1-1/8 x 1-5/8
W4096	x 1-1/4	x 1-3/8
W4097 W4098	x 1 x 3/4	x 1-1/8 x 7/8
W4099	x 3/4 x 3/4 x 1-1/2	x 7/8 x 7/8 x 1-5/8
W4099 W40244	x 1/2 x 1-1/2	x 5/8 x 1-5/8
W40144	2 x 2 x 2-1/2	2-1/8 x 2-1/8 x 2-5/8
W40103	x 1-1/2	x 1-5/8
W40104	x 1-1/4	x 1-3/8
W40105	x 1	x 1-1/8
W40106	x 3/4	x 7/8
W40107	x 1/2	x 5/8
W40109	x 1-1/2 x 2	x 1-5/8 x 2-1/8
W40110	x 1-1/2	x 1-5/8
W40111 W40113	x 1-1/4 x 3/4	x 1-3/8 x 7/8
W40113	x 1/2	x 5/8
W40114 W40115	x 1-1/4 x 2	x 5/6 x 1-3/8 x 2-1/8
W40245	x 1 x 2	x 1-1/8 x 2-1/8
W40248	x 3/4 x 2	x 7/8 x 2-1/8
A1812	2-1/2 x 2-1/2 x 3	2-5/8 x 2-5/8 x 3-1/8
W40124	x 2	x 2-1/8
W40125	x 1-1/2	x 1-5/8
W40126	x 1-1/4	x 1-3/8
W40127 W40129	x 1 x 1/2	x 1-1/8 x 5/8
W40132	x 2 x 1-1/2	x 2-1/8 x 1-5/8
W40132 W40149	3 x 3 x 1-1/2	3-1/8 x 3-1/8 x 1-5/8
W40145 W40145	x 1/2	x 5/8
W40143	x 2 x 3	x 2-1/8 x 3-1/8
W40196	4 x 4 x 2	4-1/8 x 4-1/8 x 2-1/8
W40195	x 1-1/2	x 1-5/8

TEES, NO. WT-600

PART #	SIZE NOMINAL	SIZE O.D.
W40306	1/8"	1/4"
W40313		5/16"
W4000	1/4"	3/8"
W4001	3/8"	1/2"
W4006	1/2"	5/8"
W4017	5/8"	3/4"
W4031	3/4"	7/8"
	I	I

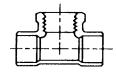
	SIZE	SIZE
PART #	NOMINAL	O.D.
W4048	1"	1-1/8"
W4068	1-1/4"	1-3/8"
W4084	1-1/2"	1-5/8"
W40102	2"	2-1/8"
W40123	2-1/2"	2-3/8"



TEES, FORGED BRASS

NO. WT-602 CxCxF

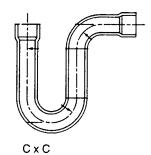
PART #	SIZE NOMINAL						SIZE O.D.	•		
	1		2		3	1		2		3
W4228	1/4	Х	1/4	х	1/4	3/8	х	3/8	Х	3/8
W4229	1/4	х	1/4	х	1/8	3/8	х	3/8	х	1/4
W4259	3/8	Х	3/8	Х	1/4	1/2	Х	1/2	х	3/8
W4283	1/2	Х	1/2	Х	3/8	5/8	Х	5/8	Х	1/2



SUCTION LINE P-TRAPS

NO. WE-544P

SIZE NOMINAL	SIZE O.D.
1/2"	5/8"
5/8"	3/4"
3/4"	7/8"
1"	1-1/8"
1-1/4"	1-3/8"
	1/2" 5/8" 3/4" 1"



SA-902 SANDCLOTH

PART #
WG SC10

If you can't find what you need...

CALL US

We have it or can get it

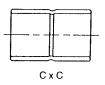


COUPLINGS

COUPLINGS, ROLLED STOP

NO. WC-400, C x C

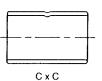
PART #	SIZE NOMINAL	SIZE O.D.
W1000		1/8"
W1003		1/4"
W1009	1/4"	3/8"
W1017	3/8"	1/2"
W1022	1/2"	5/8"
W1028	5/8"	3/4"
W1034	3/4"	7/8"
W1047	1"	1-1/8"
W1055	1-1/4"	1-3/8"
W1063	1-1/2"	1-5/8"
W1072	2"	2-1/8"
W1082	2-1/2"	2-5/8"



COUPLINGS, STAKED STOP

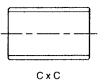
NO. WC-400S, C X C

PART #	SIZE NOMINAL	SIZE O.D.
W10142		5/16"



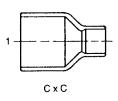
COUPLINGS, NO STOP NO. WC-400NS, C x C

PART #	SIZE NOMINAL	SIZE O.D.
W1901	1/4"	3/8"
W1902	3/8"	1/2"
W1903	1/2"	5/8"
W1904	5/8"	3/4"
W1905	3/4"	7/8"
W1906	1"	1-1/8"
W1907	1-1/4"	1-3/8"
W1908	1-1/2"	1-5/8"
W1909	2"	2-1/8"



COUPLINGS, REDUCING NO. WC-400R, C X C

PART #	SIZE NOMINAL	SIZE O.D.
	1 2	1 2
W1002		3/16 x 1/8
W1005		1/4 x 1/8
W1010		3/8 x 5/16
W1019	3/8 x 1/4	1/2 x 3/8
W1021	x 1/8	x 1/4
W1023	1/2 x 3/8	5/8 x 1/2
W1025	x 1/4	x 3/8
W1029	5/8 x 1/2	3/4 x 5/8
W1030	x 3/8	x 1/2
W1031	x 1/4	x 3/8
W1035	3/4 x 5/8	7/8 x 3/4
W1036	x 1/2	x 5/8
W1037	x 3/8	x 1/2
W1038	x 1/4	x 3/8
W1049	1 x 3/4	1-1/8 x 7/8
W1050	1 x 5/8	1-1/8 x 3/4
W1051	x 1/2	x 5/8
W1052	x 3/8	x 1/2
W1056	1-1/4 x 1	1-3/8 x 1-1/8
W1058	x 3/4	x 7/8
W1060	x 1/2	x 5/8
W1064	1-1/2 x 1-1/4	1-5/8 x 1-3/8
W1065	x 1	x 1-1/8
W1067	x 3/4	x 7/8
W1073	2 x 1-1/2	2-1/8 x 1-5/8
W1074	x 1-1/4	x 1-3/8
W1075	x 1	x 1-1/8
W1079	x 1/2	x 5/8
W1083	2-1/2 x 2	2-5/8 x 2-1/8
W1084	x 1-1/2	x 1-5/8
W1093	3 x 2-1/2	3-1/8 x 2-5/8



COUPLINGS, UNION

NO. WC-407, C x C

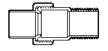
PART #	SIZE NOMINAL	SIZE O.D.
W8003	1/2"	5/8"
W8004	3/4"	7/8"
W8005	1"	1-1/8"
A11205*	1-1/4"	1-3/8"
A11206*	1-1/2"	1-5/8"
A11207*	2"	2-1/8"



COUPLINGS, UNION

NO. C-108, C x MPT

PART #	SIZE NOMINAL	SIZE O.D.
A11211*	3/4 x 3/4"	7/8 x 3/4"



^{*}Cast Bronze

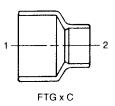
BUSHINGS

BUSHINGS, EXTENDED

NO. WC-403, FTG x C

PART #	SIZE NOMINAL 1 2	SIZE O.D. 1 2
W1306	1/4 x 1/8	3/8 x 1/4
W1312	3/8 x 1/4	1/2 x 3/8
W1314	3/8 x 1/8	1/2 x 1/4
W1315	1/2 x 3/8	5/8 x 1/2
W1317	1/2 x 1/4	5/8 x 3/8
W1320	5/8 x 1/2	3/4 x 5/8
W1321	5/8 x 3/8	3/4 x 1/2
W1325	3/4 x 5/8	7/8 x 3/4
W1326	3/4 x 1/2	7/8 x 5/8
W1327	3/4 x 3/8	7/8 x 1/2
W1337	1 x 3/4	1-1/8 x 7/8

PART #	SIZE NOMINAL	SIZE O.D.
	1 2	1 2
W1338	1 x 5/8	1-1/8 x 3/4
W1339	1 x 1/2	1-1/8 x 5/8
W1343	1-1/4 x 1	1-3/8 x 1-1/8
W1345	1-1/4 x 3/4	1-3/8 x 7/8
W1350	1-1/2 x 1-1/4	1-5/8 x 1-3/8
W1351	1-1/2 x 1	1-5/8 x 1-1/8
W1358	2 x 1-1/2	2-1/8 x 1-5/8
W1359	2 x 1-1/4	2-1/8 x 1-3/8



BUSHINGS, FLUSH

NO. WC-106, FTG x C

PART #	SIZE NOMINAL	SIZE O.D.
	1 2	1 2
W1706	1/4 x 1/8	3/8 x 1/4
W1712	3/8 x 1/4	1/2 x 3/8
W1714	x 1/8	x 1/4
W1715	1/2 x 3/8	5/8 x 1/2
W1717	x 1/4	x 3/8
W1720	5/8 x 1/2	3/4 x 5/8
W1721	x 3/8	x 1/2
W1725	3/4 x 5/8	7/8 x 3/4
W1726	x 1/2	x 5/8
W1727	x 3/8	x 1/2

PART #	SIZE NOMINAL	SIZE O.D.
	1 2	1 2
W1737	1 x 3/4	1-1/8 x 7/8
W1738	x 5/8	x 3/4
W1739	x 1/2	x 5/8
W1743	1-1/4 x 1	1-3/8 x 1-1/8
W1745	x 3/4	x 7/8
W1751	1-1/2 x 1	1-5/8 x 1-1/8
W1758	2 x 1-1/2	2-1/8 x 1-5/8
W1759	x 1-1/4	x 1-3/8



CAPS

CAPS, NO. WC-415, C

PART #	SIZE NOMINAL	SIZE O.D.
W7002	1/8"	1/4"
W7004	1/4"	3/8"
W7006	3/8"	1/2"
W7007	1/2"	5/8"
W7008	5/8"	3/4"
W7009	3/4"	7/8"

PART #	SIZE SIZE NOMINAL O.D.					
W7011	1"	1-1/8"				
W7012	1-1/4"	1-3/8"				
W7013	1-1/2"	1-5/8"				
W7014	2"	2-1/8"				
W7015	2-1/2"	2-5/8"				



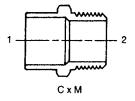


ADAPTORS

ADAPTORS, NO. WC-401, C x M

PART #	SIZE NOMINAL	SIZE O.D.
	1 2	1 2
W1106	1/8 x 1/4	1/4 x 1/4
W1110	_	5/16 x 1/4
W1114	1/4 x 3/8	3/8 x 3/8
W1115	x 1/4	x 1/4
W1124	3/8 x 1/2	1/2 x 1/2
W1125	x 3/8	x 3/8
W1126	x 1/4	x 1/4
W1129	1/2 x 1	5/8 x 1
W1130	x 3/4	x 3/4
W1131	x 1/2	x 1/2
W1132	x 3/8	x 3/8
W1139	5/8 x 1/2	3/4 x 1/2
W1145	3/4 x 1	7/8 x 1
W1146	x 3/4	x 3/4

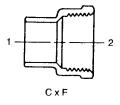
PART #	SIZE NOMINAL	SIZE O.D.
	1 2	1 2
W1147	3/4 x 1/2	7/8 x 1/2
W1162	1 x 1-1/4	1-1/8 x 1-1/4
W1163	x 1	x 1
W1164	x 3/4	x 3/4
W1165	x 1/2	x 1/2
W1170	1-1/4 x 1-1/2	1-3/8 x 1-1/2
W1171	x 1-1/4	x 1-1/4
W1172	x 1	x 1
W1179	1-1/2 x 1-1/2	1-5/8 x 1-1/2
W1180	x 1-1/4	x 1-1/4
W1187	2 x 2	2-1/8 x 2
W1188	x 1-1/2	x 1-1/2
W1196	2-1/2 x 2-1/2	2-5/8 x 2-1/2
W1199	3 x 3	3-1/8 x 3



ADAPTORS, NO. WC-402, C x FPT

PART #	SIZE NOMINAL	SIZE O.D.
	1 2	1 2
W1205	1/8 x 3/4	1/4 x 3/8
W1206	x 1/4	x 1/4
W1214	1/4 x 3/8	3/8 x 3/8
W1215	x 1/4	x 1/4
W1223	3/8 x 3/4	1/2 x 3/4
W1224	x 1/2	x 1/2
W1225	x 3/8	x 3/8
W1230	1/2 x 3/4	5/8 x 3/4
W1231	x 1/2	x 1/2
W1232	x 3/8	x 3/8
W1233	x 1/4	x 1/4
W1238	5/8 x 3/4	3/4 x 3/4
W1239	x 1/2	x 1/2
W1245	3/4 x 1	7/8 x 1

PART #	SIZE NOMINAL	SIZE O.D.
	1 2	1 2
W1246	3/4 x 3/4	7/8 x 3/4
W1247	x 1/2	x 1/2
W1263	1 x 1	1-1/8 x 1
W1264	x 3/4	x 3/4
W1265	x 1/2	x 1/2
W1270	1-1/4 x 1-1/2	1-3/8 x 1-1/2
W1271	x 1-1/4	x 1-1/4
W1272	x 1	x 1
W1278	1-1/2 x 2	1-5/8 x 2
W1279	x 1-1/2	x 1-1/2
W1287	2 x 2	2-1/8 x 2
W1296	2-1/2 x 2-1/2	2-5/8 x 2-1/2

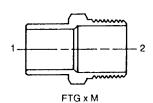


ADAPTORS

NO. WC-404, FTG x M

PART #	SIZE NOMINAL	SIZE O.D.
	1 2	1 2
W1425	3/8 x 3/8	1/2 x 3/8
W1431	1/2 x 1/2	5/8 x 1/2
W1432	x 3/8	x 3/8
W1446	3/4 x 3/4	7/8 x 3/4

PART #	SIZE NOMINAL	SIZE O.D.			
	1 2	1 2			
W1447	3/4 x 1/2	7/8 x 1/2			
W1463	1 x 1	1-1/8 x 1			
W1464	x 3/4	x 3/4			
W1471	1-1/4 x 1-1/4	1-3/8 x 1-1/4			





ADAPTORS

FITTING WC-405, FTG x FPT



PART # *	SIZE SIZE NOMINAL O.D.							
W1514	1/4 x 3/8	3/8 x 3/8						
W1525	3/8 x 3/8	1/2 x 3/8						
W1531	1/2 x 1/2	5/8 x 1/2						
W1532	x 3/8	x 3/8						
W1546	3/4 x 3/4	7/8 x 3/4						
W1547	x 1/2 x 1/2							
W1563	1 x 1	1-1/8 x 1						
W1571	1-1/4 x 1-1/4	1-3/8 x 1-1/4						
W1579	1-1/2 x 1-1/2	1-5/8 x 1-1/2						
W1587	2 x 2	2-1/8 x 2						

ADAPTORS

UNION





PART # *	SIZE NOMINAL	SIZE O.D.
A11422	1/2"	5/8"
A11423	3/4"	7/8"
A11424	1"	1-1/8"
A11425	1-1/4"	1-3/8"
A11426	1-1/2"	1-5/8"

^{*}CAST BRONZE

ELBOWS

REDUCING ELBOW - 90°, E-202, C x FPT

PART # *	SIZE NOMINAL	SIZE O.D.			
Δ2641	1-1/4 x 1-1/2	1-3/8 x 1-5/8			



HIGH EAR ELBOW - 90°, E-211HE, C x FPT

PART # *	SIZE NOMINAL	SIZE O.D.
A3038	1/2"	5/8"

^{*}CAST BRONZE

TEES

TEE, REDUCING T-302, C X C x FPT



PART # *	1	SIZE NOMINAL					SIZE O.D.			
A1512	1/2	х	1/2	х	1/2	5/8	х	5/8	х	1/2
A1538	3/4	Х	3/4	х	3/4	7/8	х	7/8	х	3/4
A1539				х	1/2				Х	1/2
A2655	1-1/4	Х	1-1/4	Х	1	1-3/8	х	1-3/8	Х	1
A1644	1-1/2	х	1-1/2	х	1-1/2	1-5/8	х	1-5/8	х	1-1/2
A3663				х	1-1/4				х	1-1/4
A2688				х	1				х	1
A2673				Х	3/4				Х	3/4
A2703	2	Х	2	Х	1	2-1/8	Х	2-1/8	Х	1
A2706				х	3/4				Х	3/4

^{*}CAST BRONZE



TEE T-303, C x FPT x C

FPT x C

PART # *	SIZE NOMINAL			SIZE O.D.							
A1548	3/4	х	3/4	Х	3/4	7/8	х	3/4	х	7/8	

^{*}CAST BRONZE



TEE, BASEBOARD NO. T-301, C x FPT x C

CxFxC

PART # *	SIZE NOMINAL			SIZE O.D.					
A7750	1/2	Х	1/8	Х	1/2	5/8	х	1/8	x 5/8
A7751	3/4	Х	1/8	Х	3/4	7/8	Х	1/8	7/8
A7754	1	х	1/8	Х	1	1-1/8	Х	1/8	x 1-1/8
A7775	1-1/4	X	1/8	X	1-1/4	1-3/8	X	1/8	x 1-3/8

^{*}CAST BRONZE

^{*}CAST BRONZE

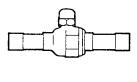


COMPRESSOR VALVES

BALL VALVES

COMPATIBLE WITH REFRIGERANTS R-11, R-12, R-22, R-500, R-502.

PART #	SIZE O.D.
904203	3/8"
904203	1/2"
904205	5/8"
904307	7/8"
905409	1-1/8"
904511	1-3/8"
905613	1-5/8"
905717	2-1/8"



PACKLESS LINE VALVES FLARE TO FLARE, TYPE I, CLASS IV

	SIZE
PART #	O.D.
A14833	1/4"
A14835	3/8"
A14836	1/2"
A14837	5/8"



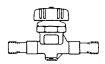
SOLDER TO SOLDER, TYPE I, CLASS II

PART #	SIZE O.D.
A14842	5/8"



EXTENDED END, TYPE I, CLASS II

PART #	SIZE O.D.
A14848	1/4"
A14850	3/8"



PRESSURE RELIEF VALVES

MPT INLET TO FLARE

PART # - PSI	INLET	OUTLET
5230-350	1/4"	3/8"
5230-425		
5231-235		
5231-350	3/8"	3/8"
5231-425		
5232-350	1/2"	5/8"
5232-425		



ATMOSPHERIC - MPT INLET

PART # - PSI	INLET	OUTLET
HE 5221-425	1/4"	N/A

VIBRATION ABSORBERS SWEAT CONNECTION





PART #	SIZE / ID	SIZE / OD	MAX. PSI
F14	1/8"	1/4"	800
F38	1/4"	3/8"	800
F12	3/8"	1/2"	600
F58	1/2"	5/8"	500
F34	5/8"	3/4"	430
F78	3/4"	7/8"	370
F118	1"	1-1/8"	250
F138	1-1/4"	1-3/8"	200
F158	1-1/2"	1-5/8"	190
F218	2"	2-1/8"	170



NITROGENIZED® ACR COPPER TUBE 20 FT. LENGTHS

PART #	SIZE O.D.	WALL THICKNESS
3/8ACR	3/8"	.030
1/2ACR	1/2"	.035
5/8ACR	5/8"	.040
3/4ACR	3/4"	.042
7/8ACR	7/8"	.045
1-1/8ACR	1-1/8"	.050
1-3/8ACR	1-3/8"	.055
1-5/8ACR	1-5/8"	.060
2-1/8ACR	2-1/8	.070
2-5/8ACR	2-5/8"	.080

TYPE L 20 FT. LENGTHS

PART #	SIZE O.D.	SIZE NOMINAL	WALL THICKNESS
3/8L	1/2"	3/8"	.035
1/2L	5/8"	1/2"	.040
3/4L	7/8"	3/4"	.045
1L	1-1/8"	1"	.050
1-1/4L	1-3/8"	1-1/4"	.055
1-1/2L	1-5/8"	1-1/2"	.060
2L	2-1/8"	2"	.070
2-1/2L	2-5/8"	2-1/2"	.080

TYPE M 20 FT. LENGTHS

PART #	SIZE O.D.	SIZE NOMINAL	WALL THICKNESS
3/8M	1/2"	3/8"	.025
1/2M	5/8"	1/2"	.028
3/4M	7/8"	3/4"	.032
1M	1-1/8"	1"	.035
1-1/4M	1-3/8"	1-1/4"	.042
1-1/2M	1-5/8"	1-1/2"	.049
2M	2-1/8"	2"	.058
3M	3-1/8"	3"	.072
4M	4-1/8"	4"	.095

REFRIGERATION SERVICE TUBE 50 FT. COILS



PART #	SIZE O.D.	WALL THICKNESS
1/8REF	1/8"	.030
3/16REF	3/16"	.030
1/4REF	1/4"	.030
5/16REF	5/16"	.032
3/8REF	3/8"	.032
1/2REF	1/2"	.032
5/8REF	5/8"	.035
5/8REF-100	5/8"	.035
3/4REF	3/4"	.035
7/8REF	7/8"	.045
1-1/8REF	1-1/8"	.050



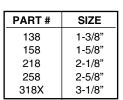
LINE SETS

PART #	LIQUID LINE	SUCTION LINE	INSULATION	LENGTH
610-25	3/8	5/8	3/8	25'
610-35	3/8	5/8	3/8	35'
610-50	3/8	5/8	3/8	50'
612-25	3/8	3/4	3/8	25'
612-35	3/8	3/4	3/8	35'
612-50	3/8	3/4	3/8	50'
614-25	3/8	7/8	3/8	25'
614-35	3/8	7/8	3/8	35'
614-50	3/8	7/8	3/8	50'

COPPER TUBE INSULATION

6' LENGTH, 3/8" WALL

	,
PART#	SIZE
38	3/8"
12XX	1/2"
58	5/8"
34	3/4"
78	7/8"
118	1-1/8"





INSULATED SHEET

CONTINUOUS ROLLS

PART #	SIZE / IN.	THICKNESS
3648-34	36 x 48	3/4"
3648-1	36 x 48	1"

FLARED BRASS TUBE FITTINGS

FLARE NUT - OIL

PART #	TUBE - OD
41C	1/4
41 F	1/2
41 H	5/8



FORGED FLARE NUT - REFRIG.

PART #	TUBE - OD
NS4C	1/4
NS4D	5/16
NS4E	3/8
NS4F	1/2
NS4FE	1/2 x 3/8
NS4H	5/8
NS4J	3/4
NS4M	7/8



SWIVEL FORGED NUT CONNECTOR

PART #	TUBE - OD
US4C	1/4 x 1/4
US4D	5/16 x 5/16
US4E	3/8 x 3/8
US4H	5/8 x 5/8
US4J	3/4 x 3/4



UNIONS

PART #	TUBE - OD
42C	1/4 x 1/4
42D	5/16 x 5/16
42E	3/8 x 3/8
G42EC	3/8 x 1/4
42H	5/8 x 5/8
42J	3/4 x 3/4
42M	7/8 x 7/8



FEMALE CONNECTOR

PART #	TUBE - OD
46C	1/4 x 1/8
46CF	1/4 x 1/2



MALE CONNECTOR (FL x MPT)

PART #	TUBE - OD
48C	1/4 x 1/8
48CC	1/4 x 1/4
48CE	1/4 x 3/8
48E	3/8 x 1/8
48EE	3/8 x 1/4
48EEE	3/8 x 3/8
48EF	3/8 x 1/2
48F	1/2 x 3/8
48FF	1/2 x 1/2
48H	5/8 x 1/2
48J	3/4 x 1/2
48JJ	3/4 x 3/4
48MJ	7/8 x 3/4



MALE ELBOW

PART #	TUBE - OD x MPT
49C	1/4 x 1/8
49CC	1/4 x 1/4
49CE	1/4 x 3/8
49DE	5/16 x 3/8
49EE	3/8 x 1/4
49EEE	3/8 x 3/8
49EF	3/8 x 1/2
49F	1/2 x 3/8
49FF	1/2 X 1/2
49H	5/8 X 1/2
49HJ	5/8 x 3/4
49J	3/4 x 1/2



FLARE PLUG

PART #	TUBE - OD
P2D	5/16
P2H	5/8
P2J	3/4



FLARE UNION ELBOW

PART #	TUBE - OD
55C	1/4
55E	3/8



FLARED BRASS TUBE FITTINGS

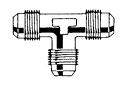
SOLDER CONNECTOR FLARE x SOLDER TUBE

PART #	TUBE - OD
US3-CC	1/4 x 1/4
US3FF	1/2 x 1/2



FLARE TEE

PART #	TUBE - OD
44C	1/4
44D	5/16
44E	3/8
44F	1/2
44H	5/8
44 J	3/4



DRUM CONNECTOR

PART #	TUBE - OD x MPT
K1-1	1/4 x 3/4
K1-8	1/4 x 1/2



GASKET

PART #	TUBE - OD
K1-F	1/2
K1J	3/4



ELBOW TUBE x FEMALE THREAD

PART #	SIZE
E4C	1/4 x 1/4
E4E	3/8 x 3/8
E4F	1/2 x 1/2



GASKET 45° COPPER FLARE

PART #	TUBE - OD
B2B	3/16
B2E	3/8
B2F	1/2
B2H	3/4



REDUCING FLARE UNION

PART #	TUBE - OD
G42EC	3/8 x 1/4
UR2-84	1/2 x 1/4
UR2-86	1/2 x 3/8
UR2-106	5/8 x 3/8



FEMALE FLARE CONNECTOR

PART #	TUBE - OD x FPT
46C	1/4 x 1/8
U3-4B	1/4 x 1/4
46CF	1/4 x 3/8
U3-4D	1/4 x 1/2
U3-6A	3/8 x 1/8
U3-6C	3/8 x 3/8
U3-6D	3/8 x 1/2
U3-8B	1/2 x 1/4
U3-8C	1/2 x 3/8
U3-8D	1/2 x 1/2
U3-8E	1/2 x 3/4
U3-10C	5/8 x 3/8
U3-10D	5/8 x 1/2
U3-10E	5/8 x 3/4



REDUCING FLARE FITTING FEMALE x MALE

PART #	SIZE
UR3-44	1/4 x 1/4
UR3-45	1/4 x 5/16
UR3-46	1/4 x 3/8
UR3-48	1/4 x 1/2
UR3-54	5/16 x 1/4
UR3-68	3/4 x 1/2
UR3-86	1/2 x 3/8
UR3-810	1/2 x 5/8
UR3-106	5/8 x 3/8
UR3-108	5/8 x 1/2



BRASS COMPRESSION FITTINGS

SLEEVE

PART #	TUBE - OD
60C	1/4
60D	5/16
60E	3/8
60F*	1/2
60H*	5/8
60M	7/8



STANDARD NUT

PART #	TUBE - OD
61C	1/4
61D	5/16
61E	3/8
61F	1/2
61H*	5/8
61J	3/4



UNION

PART #	TUBE - OD
62A	1/8
62B	3/16
62C	1/4
62D	5/16
62E	3/8
62F*	1/2
62H*	5/8
62M	7/8



*HEAVY

REDUCING UNION

PART #	SIZE
62REC	3/8 x 1/4
62RFE	1/2 x 3/8
62RHF	5/8 x 1/2



PILOT LINE CONTROL NUT FOR THERMOSTATS

PART #	TUBE - OD
81 LC	1/4



MALE CONNECTOR

PART #	TUBE - OD x MPT
68A	1/8 x 1/8
68C	1/4 x 1/8
68CC	1/4 x 1/4
68E	3/8 x 1/8
68EE	3/8 x 1/4
68EEE	3/8 x 3/8
68EJ	3/8 x 3/4
68F*	1/2 x 3/8
68FF*	1/2 x 1/2
68FJ*	1/2 x 3/4
68H*	5/8 x 1/2
68HJ*	5/8 x 3/4
68JJ	3/4 x 3/4
68J	3/4 x 1/2
68MF	7/8 x 1/2
68MJ	7/8 x 3/4



FEMALE CONNECTOR

PART #	TUBE - OD x FPT
66EEE	3/8 x 3/8
66F	1/2 x 3/8



MALE ELBOW

PART #	TUBE - OD x FPT
69C	1/4 x 1/8
69CC	1/4 x 1/4
69E	3/8 x 1/8
69EE	3/8 x 1/4
69EEE	3/8 x 3/8
69EF	3/8 x 1/2
69FF*	1/2 x 1/2
69H	5/8 x 1/2
69JJ	3/4 x 3/4



UNION ELBOW

PART #	TUBE - OD
65C	1/4

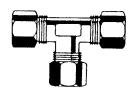


^{*}HEAVY

BRASS COMPRESSION FITTINGS

TEE

PART #	TUBE - OD
64C	1/4
64D	5/16
64E	3/8
64F*	1/2
64H*	5/8
64J	3/4

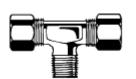


REDUCING TEE

PART #	TUBE - OD
64CCE	1/4 x 1/4 x 3/8

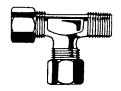
W/MPT

PART #	SIZE
72C	1/4 x 1/4 x 1/8



MALE RUN TEE

PART #	SIZE
71C	1/4 x 1/8 x 1/4



BRASS COMPRESSION TUBE FITTINGS POLYETHYLENE TUBING

PLASTIC SLEEVE

PART #	TUBE - OD
460C	1/4



INSERTS

PART #	TUBE - OD
461C	1/4



BRASS PIPE FITTINGS

SQUARE HEAD PLUG

ſ	PART #	MPT
	109N	1"



BUSHING HEX HEAD PLUG

M	PΤ	Гх	F	PΤ

PART #	SIZE
110C	1/4 x 1/8
110E	3/8 x 1/8
110EE	3/8 x 1/4
110FA	1/2 x 1/8
110FC	1/2 x 1/4
110J	3/4 x 1/2
110JC	3/4 x 1/4
110JE	3/4 x 3/8



COUPLING

PART #	SIZE / FPT
L103A	1/8
103C	1/4



CLOSE NIPPLES

PART #	SIZE / MPT
112A	1/8"



^{*}HEAVY

BRASS PIPE FITTINGS

PIPE NIPPLE

1/8" DIA.

PART #	LENGTH
117A1-1/2	1-1/2"
117A3	3"



1/4" DIA.

PART #	LENGTH
117C1-1/2 117C2 117C2-1/2	1-1/2" 2" 2-1/2"
117C2-1/2 117C3	3"



REDUCING ADAPTOR

FPT x MPT

PART #	SIZE
120RFE	1/2 x 3/8



90° STREET ELBOW

FPT x MPT

PART #	SIZE
116SA-97	1/8"
116SE-30	3/8"



90° ELBOW

PART #	SIZE / FPT
100A	1/8"
100C	1/4"



TEE

PART #	SIZE / FPT
101CX	1/4"



TEE FPT x MPT x FPT

PART #	SIZE
127C	1/4"



BRASS GARDEN HOSE FITTINGS

CONNECTOR MALE HOSE x MPT

PART #	SIZE
748JJF	3/4 x 3/4*



CONNECTOR MALE HOSE x FPT

PART #	SIZE
746JJ	3/4"



UNION MALE HOSE

PART #	SIZE
757JJ	3/4"



CAP

FEMALE HOSE

PART #	SIZE
708J	3/4"



SWIVEL UNION FEMALE HOSE

PART #	SIZE
703SJJ	3/4"



EVAPORATIVE COOLER DRAIN W/ LOCKNUT AND GASKET MALE HOSE x FPT

PART #	SIZE
2CDJF	3/4 x 1/2



WASHER

PART #	SIZE
700G	3/4"



^{*}TAPPED UNDER MPT END.

HOSE x MULTI BARB BRASS FITTINGS

HOSE BARB x MALE HOSE

PART #	SIZE
TAA2412	3/4 x 3/8barb
619HJ	3/4 x 5/8barb



HOSE BARB x MPT

PART #	HOSE ID	X	MALE PIPE
220B	3/16	х	1/8
220E	3/8	Х	1/8
220EE	3/8	Х	1/4
220EEE	3/8	х	3/8



HOSE BARB UNION

PART #	HOSE - ID
222E	3/8"
222F	1/2"



NYLON HOSE BARB FITTINGS

CONNECTOR BARB x MPT

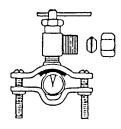
PART #	HOSE ID	x	MALE PIPE
NY220F	1/2	x	3/8
NY220FF	1/2	x	1/2



BRASS NEEDLE VALVES FOR COMPRESSION TUBING

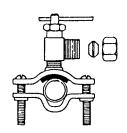
SELF PIERCING NEEDLE VALVE AND SADDLE CLAMP

PART #	TUBE OD	x	MALE PIPE
123KCSP	1/4	х	1/8



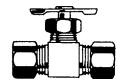
NEEDLE VALVE AND SADDLE CLAMP

PART #	TUBE OD	X	MALE PIPE
123KC	1/4	X	1/8



NEEDLE VALVE COMPRESSION TUBE BOTH ENDS

PART #	TUBE - OD
106KC	1/4
106KE	3/8



TANK & VENT VALVES HEAVY SPRING CORE

PART #	TUBE - MPT
1VAH	1/8"





TELE-SPOUT® OILER

Squeeze pressure on the container allows the oil to flow in any direction with the flexible spout.

PART #	DESCRIPTION
D01	4 OZ. BOTTLE WITH TELE-SPOUT



POCKET TESTERS

Just the thing to make that fast electrical circuit check

electrical cil	icuit check.
PART #	DESCRIPTION
TE2	HIGH VOLTAGE, 90-250VAC/DC
TE3	MULTI-VOLTAGE, 110, 220, 277 OR 440VAC/DC

BRAZE-ON SERVICE VALVES

Copper-To-Copper M-Series

The M-Series is the first and best braze-on, self-piercing copper saddle valve. It is widely used and easily installed on a charged line. After brazing the saddle portion onto line, the steel pin with valve core penetrates the line and is locked into place simply by tightening the cap. Available in sizes ranging from 1/4" to 1-1/8".



PART # CD5514

PART # CD5558

copper saddle for 1/4" line

copper saddle for 5/8" line

PART # CD5516

PART # CD5578

copper saddle for 5/16" line

copper saddle for 7/8" line

FIN COMBS

Straighten and clean evaporator and condenser fins with these tough, durable nylon combs.

PART #	FINS PER INCH
P8	4, 5, 8 AND 10
P9	9 AND 15
P11	11 AND 13
P12	6, 7, 12 AND 14
P17	16 AND 17
P18	18 AND 20



CHARGEFASTER

Chargefaster is a calibrated restrictor device designed to meter liquid refrigerant into the low side of the system.



PART #	DESCRIPTION
CH300	FOR SYSTEMS 5 TO 10 TONS

ADJUSTABLE LINE TAP VALVES

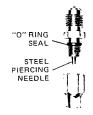
Threading wing cap on the depressor pin pierces the line. When the wing cap is removed, the valve closes, the line is pierced and ready for the connection of the charging hose.



PART#	TUBING SIZE O.D.
A1	1/4", 5/16", 3/8"
A2X	1/2", 5/8"

SOLDER TYPE LINE TAP VALVE

This easy to install "solder on" piercing valve has a unique O-ringseal, which prevents blow-by when piercing the line.



PART #	TUBING SIZE O.D.
B1-6S	3/8"
B1-8S	1/2"

PART #	TUBING SIZE O.D.
B1-10S	5/8"
B1-14S	7/8"



QUIK-CAP AND VALVE CORES

Replacement valve cores are available 6 in a plastic tube. The cap is a QCR4 remover.

PART #	DESCRIPTION
QC4	FOR 1/4" MALE FLARE
AVC6	6 VALVE CORES IN TUBE WITH QC4R CAP



ACCESS VALVES

Access valves are permanent access ports and are supplied with built-in valve cores and brass caps. All access valves have 1/4" male flare connections.

PART #	MODEL	SIZE / DESCRIPTION
AV2456 AV3346	STEP DOWN	1/8" I.D. HOLE, 3/16, 1/4, 5/16" STEPS 3/16" O.D. TUBE OR 1/4" & 3/8" SOLDER FITTING
AV34 AV46	SOLDER	3/16" O.D. OR 1/4" SOLDER FITTING 1/4" O.D. TUBE OR 3/8" SOLDER FITTING
AVU24 AVU45 AVU44	HALF UNION UNION	1/8" MPT OR 1/4" O.D. SOLDER 1/4" MPT OR 5/16" O.D. SOLDER 1/4" MALE FLARE x 1/4" FEMALE FLARE
AVX2 AVX3 AVX4 AVX5 AVX6	EXTENDED END	1/8" O.D. EXTENDED END TUBE 3/16" O.D. EXTENDED END TUBE 1/4" O.D. EXTENDED END TUBE 5/16" O.D. EXTENDED END TUBE 3/8" O.D. EXTENDED END TUBE
AVT4 AVT5 AVT6	SOLDER TEE	1/4" O.D. TUBE OR 3/8" SOLDER FITTING x 1/4" SAE 5/16" O.D. TUBE OR 3/8" SOLDER FITTING X 1/4" SAE 3/8" O.D. TUBE OR 1/2" SOLDER FITTING x 1/4" SAE
AVT34	UNION TEE	1/8" MPT x 1/4" MALE FLARE ON RUN
AVS4	SWIVEL NUT	1/4" SAE ACCESS FLARE WITH SWIVEL NUT
AVS44 AVS64	UNION TEE W/SWIVEL NUT	1/4" MALE x SWIVEL NUT ON RUN x 1/4" MALE BRANCH 1/4" MALE RUN x SWIVEL NUT ON BRANCH
AVW8 AVW10 AVW14	WROUGHT TEES	1/2" O.D. TUBE WITH 1/4" ACCESS ON BRANCH 5/8" O.D. TUBE WITH 1/4" ACCESS ON BRANCH 7/8" O.D. TUBE WITH 1/4" ACCESS ON BRANCH



PRESSURE CONTROLS

High and low pressure controls.

PART #	KLIXON #	OPEN	CLOSE
PSLP10-25	20P003FA025E010E	10 PSI	25 PSI
PSLP25-80	20P003FA080E025E	25 PSI	80 PSI
PSLP40-80	20P003FA080E040E	40 PSI	80 PSI
PSHP350-250	20P003FB350K250K	350 PSI	250 PSI
PSHP400-200	20P003FB400K200K	400 PSI	200 PSI
PSHP400-200	20P003FB450K250K	450 PSI	250 PSI





AIR CONDITIONING ACCESSORIES

BULLET® PIERCING VALVES

Has a metal to metal seat that creates a permanent, leakproof seal that will withstand any pressure and temperature for the life of the

PART #	OD TUBE SIZE
BPV31*	1/4", 5/16", 3/8"
BPV21*	1/2", 5/8"
BPV58	5/8"
BPV34	3/4"
BPV78	7/8"

^{*} Adaptor sleeves furnished for multiple applications.

TD60 SERIES DELAY ON MAKE TIMERS APPLICATION

- . ON. Delay On Make
- . Multi Purpose .Delay on Make. timing.
- . Protects Air-conditioning, Refrigeration and Heat pumps from damage which
- may be caused by short cycling of compressor. . For compressor staging and stagger starting
- multiple units.
- . Helps to reduce power surges in multiple compressor applications.

PART #	DELAY	CONNECTIONS
TD69	6 Sec - 8 Min	1/4" Stake - Ons

SOLID STATE POWER PAKS

SUPER BOOST

Increases starting torque up to 500%

PART #	VOLTAGE	INCREASED TORQUE
856	115-280	390 OUNCE INCHES



SUPER BOOST STARTER

Increases starting torque up to 600%

PART #	VOLTAGE	INCREASED TORQUE
SPP7S	120-230	450 OUNCE INCHES

Increases starting torque up to 690%

PART #	VOLTAGE	INCREASED TORQUE
SPP8E	120-230	520 OUNCE INCHES





Electric Element Re-String Kits

Designed to permit field repairs of damaged element sections of electric heaters.

Coil stretches to fit many applications. Contains 2 ceramic terminal insulator sets, plated bolts, nuts, washers and element.

PART #	DESCRIPTION
DH507	3kw @ 240v
DH506	4kw @ 240v
DH500	5kw @ 240v



TD73 SERIES DELAY ON BREAK TIMERS APPLICATION

- . OFF. Delay On Break
- . Multi Purpose .Delay on Make. timing.
- . Protects Air-conditioning, Refrigeration and Heat pumps from damage which may be caused by short cycling of compressor.
- For compressor staging and stagger starting
- multiple units.
- . Helps to reduce power surges in multiple compressor applications.

PART #	DELAY	CONNECTIONS
TD73	6 Sec - 5 Min	1/4" Stake - Ons
TD73W	6 Sec - 8 Min	Wire Leads & stake-ons

SIGHT GLASSES

PROVIDES A QUICK AND EASY INDICATION OF REFRIGERANT IN THE TUBE, AS WELL AS THE PRESENCE OF MOISTURE.

MALE/FEMALE FLARE

PART #	SIZE / IN.	LENGTH
SG115R*	3/8 x 3/8	3-1/4"
SG206R	1/2 x 1/2	3-11/16"

MALE/MALE FLARE

PART #	SIZE / IN.	LENGTH
SG110R*	1/4 x 1/4	3-1/8"
SG111R*	3/8 x 3/8	3-3/8"

SOLDER TYPE

PART #	SIZE / IN.	LENGTH
SG118R*	1/4 x 1/4	7-1/4"
SG119R*	3/8 x 3/8	7-3/4"

^{*} UL LISTED.





YELLOW JACKET® Charging Systems

YELLOW JACKET SERIES 41-45 MANIFOLDS

Bold easy-to-read gauges. Large bold numbers and colored scales are easy to read. Removable Lexan® crystals resist breakage. Standard gauge cases are color-coded red and blue. Brass and chrome are also available.

Pretested. Every manifold is individually pressure tested for reliability before shipping.

Limited Lifetime Warranty on manifold with valves. See manifold instructions for details.

Yellow Jacket Hoses. Most manifolds include color-coded Yellow Jacket charging hoses with 500 psi working pressure and all the other performance features you've come to expect. *Plus II* construction, different colors, lengths and fittings are available.

Sliding double "O" ring pistons. Non-rotating design reduces wear. Only 1-1/2 turns give you full flow. Long-life nylon seat is also for vacuum and 34a, R-404A, R-507, R-504A, etc.

SERIES 41-45 MANIFOLDS - Temperature Scales R-12, R-22 and R-502 with red and blue °F* gauges

R-22 Description R-410 R-502	Gauge Scales	Part # No Hose	Part# w/ Hoses
Basic unit: manifold,	R-12, R-22,		
gauges, hook and anchors	R-502	42001	41215

°F (FAHRENHEIT) PRESSURE & COMPOUND GAUGES - PSI



All Yellow Jacket gauges feature bold high-visibility dials with colored temperature scales for easy reading. And with Flutterless™ technology, surge protector minimizes the needle pulsation for improved accuracy.

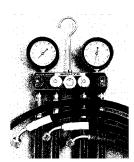
Manifold dials feature R-12, R-502 and R-22 scales. New HFC refrigerant gauges for R-134a, R-507 and R-404A are available. Compound gauges feature over pressure protection to 350 pounds. 1/8" MPT lower mount fitting. Solid brass and chrome-plated brass gauges provide additional features:



- Heavy duty phosphor bronze and stainless steel internal components for precision reading and longer life under severe use.
- Improved pulsation suppression.

UPC#	Fig.	Description	
CFC & HCFC R-12, R-502, R-22			
49101	1	Red pressure 0-500° F	
49102	2	Blue pressure 30-0-120 °F	
49011	1	Brass pressure 0-500 °F	
R-410A	,		
49035	1	0-800 PSI	

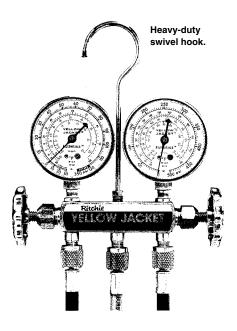
°F (FAHRENHEIT) BRUTE 4-VALVE SERIES with 1/2" or 3/8" vacuum ports



Large 3-1/8" liquid filled gauges available on some models. Larger, easier to read dials.

Other models available with red or blue gauges or the premium movement brass gauges. Both feature color coded protective boots.

	UPC#	Vacuum Port	Hi&Lo Charge Ports	Gauge Type	Gauge Scales	Description
ı	47312	3/8"	1/4"	R&B	R-410A	Manifold Only
ı	46020	3/8"	1/4"	R&B	R-12,R-502,R-22	4V Manifold Only
ı	46212	3/8"	1/4"	R&B	R-12,R-502,R-22	2V Manifold Only



YELLOW JACKET SLING PSYCHROMETER



Slim, compact tool easily checks humidity. One piece unit with self-contained housing fits into your pocket.

· Calibrated and easy-to-read.

UPC#	Description
69010	Sling psychrometer
69011	Replacement wicks (5 pack)
69015	Replacement thermometer

9" Flexflow™ and Low Loss Adapter Hose



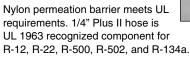
UPC #	Description
26002	3/8" Heavy Duty



YELLOW JACKET® Charging Hoses

Plus II[™] 1/4" CHARGING HOSES with double barrier protection

YELLOW JACKET® Plus II Hoses have proven performance benefits of the original line, plus double barrier protection for CFC, HCFC and HFC (R-404A, R-134a, R-507, R-407C, R-410A, etc.).



Moisture barrier provides improved resistance to moisture migration which contaminates expensive refrigerant.

Other features include 4000 psi minimum burst and 800 psi maximum working pressure for a 5 to 1 safety factor.

Standard 1/4" fitting or 45° with SealRight fitting at one end.

Operating temperature -20° to 180°F.

UPC#	Description
21986	Y/B/R 3-Pak

PLUS II HOSE with SealRight™ low loss anti-blow back fitting

Low loss anti-blowback SealRight fitting immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and prevent finger burns. 45° end for ease in tight areas. Gaskets resist deterioration from existing CFC's, plus new HFC refrigerants and oils. Available with SealRight fittings on both ends. New ball valve hose recommended for R-410A.



UPC#	Description
22983 22985	36" Y/B/R 3-Pak 60" Y/B/R 3-Pak
22986	70" Y/B/R 3-Pak

UPC #	Description
22060	1 - 60" Yellow Hose
22260	1 - 60" Blue Hose
22660	1 - 60" Red Hose

MAX-FLOW™ DELUXE OIL PUMP

Improved for added reliability and a more powerful stroke, the Max-Flow deluxe oil pump is a high capacity unit for quick charging. Pumps 3.8 ounces or 112.38 ml per stroke. Other features:

- Remove oil for recovery and conversion.
- Add oil to existing systems.
- Operating unit in reverse with adapter hose accessory removes oil from equipment quickly and efficiently.
- Will pump against 250 psi pressure.

UPC #	Description
77930	Max-Flow Deluxe oil pump
77922	24" suction hose – 1/4" fitting one end only



HEAVY DUTY PLUS II 1/2" and 5/8" COMBINATION CHARGING / HI-VACUUM HOSE

Heavy-use construction with a *Plus II* barrier that reduces permeation and vacuum loss. Features:

- 500 psi working pressure; 2000 psi burst. 1/2" and 5/8" assemblies.
- Various fittings available on request.

1/4" access valve connection standard on one end CA and DA hoses.



L	"C" 1/2"	fl. x 1/2" fl.
60"	#15860	C-60"

HEAVY DUTY PLUS II 3/8" CHARGING / HI-VACUUM HOSE

Pull a vacuum much faster with heavy-duty 3/8" hose than with a 1/4" hose. 3/8" provides freer flow.

- Permeation resistant Plus II
 barrier
- Working pressure 500 psi; 2000 psi burst.

A	1		
7			
			A
		DIE S	1

L	3/8" fl. sir. x 3/8" fl. str.
72"	#15672 BC-72"

GAS PRESSURE TEST KIT

Easier to use than a manometer, this compact kit helps you accurately set manifold pressure for natural or L.P. gas.

UPC #	Capacity		
78060	0- 35" WC		



WATER-TYPE MANOMETER

Economical plastic tube manometer helps you set manifold pressure for natural or L.P. gas. Now goes to -2" W.C. for newer systems. Strong magnet on manometer holds it in convenient upright position. Includes tubing with fitting.

UPC#	Description
78075	-2" - 15" Scale





YELLOW JACKET® SUPEREVAC™ Systems YELLOW JACKET 4, 6, SUPEREVAC PUMPS

All the new design features build on the performance-proven quality features the industry already expects from the Yellow Jacket line:

- High efficiency. CFM rated as "free air displacement." 15 micron field rating. The lower the micron number - the better the pump.
- Vacuum indicator gauge at the pump intake fitting shows evacuation progress down to the green 29" to 30" range, so you'll know when to turn on electronic gauge for more precise readings.
- Heavy duty high torque motor assures cold weather starting.
- Gas ballast speeds evacuation and keeps oil cleaner.
- Low operating temperature to improve efficiency and vacuum.

- Large oil reservoir to help reduce operating temperature and better dilute corrosive contaminants.
- Two stage rotary vane design (at right) increases efficiency and speeds pump down to 15 microns.



YELLOW JACKET SUPEREVAC™ PUMPS SPECIFICATIONS

DOMESTIC	Model 93600
Free air displacement	7.0 CFM
Number of stages	2 stage rotary vane
Field blankoff	15 microns
Intake	1/4" x 1/4" x 3/8"
Motor 1725rpm	1/2hp -
Internal capacitor thermal overload	Temperature rise 40° C
Voltage (single phase)	115 Volt-60 cycle
Power cord	6' - motor mounted switch
Oil capacity	28 ounces
Dimensions	16.25" L x 6" x 11.5" H
Net weight	30.8 lbs. (14 kg)

MICRO LED UV LEAK DETECTION KITS

Use these high visibility lamps to spot leaks on all A/C systems. Individual reflectors surround each of five LEDs recessed for protection in the stainless steel head. 69790 features 3 UV and 2 blue bulbs A/C for detection at greater distances. For greatest contrast with all fluorescent dyes, use P/N 69721 with 5 UV bulbs.

- 110,000+ hour LEDs.
- Constant ON or momentary ON switch.
- · Sealing locks out moisture.
- · Long life lithium battery included.
- · Aircraft aluminum body.
- · Limited lifetime warranty.



#69789

FLARING/CUTTING KITS



Tool designed to flare on the larger sized tubing - up to 1-1/8". Flaring bars are hardened and grip tubing securely. Yoke slips over flaring bar and locks in place. Long handle and precision threaded feed screw ensure easy flaring.

UPC #	Capacity
60240	1/8" - 3/4"

LARGE SIZE 45° FLARING TOOLS 3/4" to 1-1/8" O.D.



Tool designed to flare on the larger sized tubing - up to 1-1/8". Flaring bars are hardened and grip tubing securely. Yoke slips over flaring bar and locks in place. Long handle and precision threaded feed screw ensure easy flaring.

UPC #	Capacity		
60290	3/4" - 1-1/8"		

PUNCH-TYPE SWAGING TOOL



5/8" to 7/8"

1/4" to 1/2

Durable heat-treated and plated alloy steel tool expands one end of copper tubing for connecting same size tubes

UPC #	Capacity
60460	3/16" - 5/8"
60464	1/4" OD
60465	5/16" OD
60466	3/8" OD
60467	1/2" OD
60469	3/4" OD
60470	7/8" OD

FULL RANGE HEAVY DUTY TUBE BENDERS for 1/4" to 7/8" radius

Make fast bends on almost every size of AC&R copper, brass, aluminum,

AC&R copper, brass, aluminum, steel and soft stainless steel tubing to 180°.

Line features special hardened wearing surfaces to help maintain accuracy. 60390 is a compact three-in-one bender for 1/4", 5/16" and 3/8" O.D. tubing.

Calibrated markings for bends up to 180° help you duplicate angles.

١	UPC #	Description
	60390	3 in1 bender



REFRIGERATION RECOVERY

REFRIGERANT RECOVERY SYSTEM #95730

Yellow Jacket System R 60a is rated as fast or faster than all competitive units in the ARI directory or UL listings for most CFC, HCFC, and HFC refrigerants including R-410A. Features include all of the following:

- Single valve control for easy changeover from liquid to vapor to purge (patent pending)
- Constant Pressure Regulator (CPR) valve regulates refrigerant to the compressor. Eliminates the need for the technician to throttle the suction valve
- Advanced 1/2 hp, 3425 rpm oil-less compressor with precision valves manufactured in an ISO-9001 facility
- Recovers refrigerant and shuts off when unit reaches 13" of vacuum. Unit will automatically restart if system pressure rises
- Indicator signals "recovery complete"
- Quiet running with components nested to reduce vibration and noise. Oil-less compressor is inherently quiet
- Controls and gauges inset for protection and angled for easy access and viewing
- Senses back pressure from tank and shuts off automatically at 517 psi for safety
- Reusable mesh particulate filter inserts into suction port for protection. Simple cleaning eliminates replacement due to clogging
- "On-the-fly" purge with simple turn of a knob to remove residual refrigerant and help prevent cross-contamination
- High efficiency fan keeps air moving across condenser for cool running even in hot weather
- High strength HDPE case for lightweight and rugged use. Rounded corners help protect from nicks and scrrapes
- Single high pressure safety switch
- Includes three-year compressor warranty
- Made in the USA

Specifications:

Capabilities: Vapor, liquid, push/pull

Refrigerants: 12, 22, 134a, 407C, 410A, 500, 502, and other

Class III, IV and V refrigerants

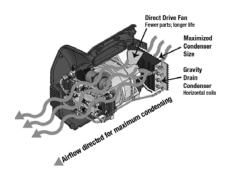
Compressor: ½ hp, twin cylinder, reciprocating, oil-less

Power Source: 115V/60 Hz Amps: 8.0 High Pressure Shut-Off: 517 psi – auto reset Operating Temperature: 40° to 122° F (4° to 50° C) Approvals: Performance tested by UL to ARI 740-98

Weight: 24 Lbs.

Dimensions: 9.0 (w) x 11.5 (h) x 13.5 (d) in. 22.86 (w) x 29.21 (h) x 34.29 (d) cm





High efficiency fan keeps air moving across an oversized condenser for cool running even in high temperature operating conditions.

Built-In High Side Pressure Gauge

- 2-1/2" Liquid-filled pressure gauge shows discharge pressure during recovery and internal pressure during purge.
- 0 40 bar; 0 600 psi helps you monitor recovery.
- Durable and easy to read under any conditions.



Built-In Purge Circuit

- Changeover from liquid to vapor to purge
- No external equipment required
- Simple to use move the hose and turn the selector button





REFRIGERATION PRODUCTS AND ACCESSORIES

SUCTION-LINE FILTER DRIERS

PART#	FITTING TYPE AND SIZE	CU. IN. DESICCANT	FILTER AREA SQ. IN.	O.A. LENGTH	SHELL DIA.
SLD8-3SV	3/8" SWEAT	8	17.25	4.31"	3"
SLD8-4SV	1/2" SWEAT	8	17.25	4.44"	3"
SSD5SC	5/8" SWEAT	8	17.27	4.69"	3"
SSD6SC	3/4" SWEAT	13-1/2	26	5-3/16"	4"
SSD7SC	7/8" SWEAT	13-1/2	26	5-13/16"	4"



REPLACEABLE FILTER CORE DRIER

PART#	CORES	FILTER AREA	REF. FLOW CAP. IN TONS @ 2psi		FITTING CONNECTIONS INCHES	REFRIGERANT 12 & 502 PERM. INST.	REFRIGERANT 22 PERM. INST.		
			12	22	500	502			
P487	1		22	29	25	18-1/2	7/8	6	10
P489	1	66	29	38	34	28	1-1/8	8	15
P967	2		38	50	43	33	7/8	6	10
P969	2	132	45	60	52	40	1-1/8	10	20
P9611	2		54	72	61	49	1-3/8	10	20
P1449	3	198	55	72	63	49	1-1/8	15	20
P14411	3		64	85	74	56	1-3/8	20	25



REPLACEABLE CORE DRIER KITS

(SPRING RETAINERS, GASKET, RODS & SCREEN ASSY.)

PART #	SHELL #'S
K4607-01	P485-P4813
K4607-02	P967-P9613
K4067-03	P1449-P14411
K4067-04	P19211-P19213



SIGHT-GLASS MOISTURE INDICATOR

PART#	FITTING SIZE	LENGTH / IN.
LDE-2S	1/4" SWEAT	3.05
PSG2S	1/4" SWEAT	4.88
LDE3	3/8" FLARE	3.05
LDE3S	3/8" SWEAT	4.88
PSG4MF	1/2" M/F FLARE	3.39
LDE4S	1/2" SWEAT	4.88
PSG5S	5/8" SWEAT	3.69
LDE5S	5/8" SWEAT	4.88
LDE7S	7/8" SWEAT	6.25
PSG9S	1-1/8" SWEAT	6.25
PSG10T	REPLACEMENT INDICATOR ELEMENT & "O" RING	





REFRIGERATION PRODUCTS AND ACCESSORIES

LIQUID LINE FILTER DRYERS



• SWEAT

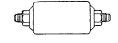
PART #	PIPE OD	LENGTH/ INCHES	DIAMETER/ INCHES
AH052S	1/4"	3-13/16	1-11/16
AH053S	3/8"	3-5/8	2-1/2
AH083S	3/8"	4-1/2	2-1/2
AH084S	1/2"	4-3/8	2-1/2
AH163S	3/8"	5-3/16	2-1/2
AH164S	1/2"	5-1/16	2-1/2
AH165S	5/8"	5-5/16	2-1/2
AH304S	1/2"	8	3
AH305S	5/8"	8	3
AH415S	5/8"	8	3-1/2
AH417S	7/8"	8	3-1/2
AH757S	7/8"	13-3/4	3-1/2
AH759S	1-1/8"	13-3/4	3-1/2

SUCTION LINE ACCUMULATOR*

FOR HEAT PUMP APPLICATIONS

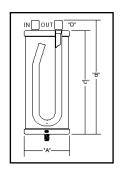
		Dime	Fittings		
Part #	Α	В	С	D	Inlet/Outlet
VA-56-7SRD	5"	13"	3"	1"	7/8"
VA-59-9SRD	5"	14"	3"	1"	1-1/8"

• FLARE



PART #	SAE FLARE	LENGTH/ INCHES	DIAMETER/ INCHES
AH032	1/4	4-1/8	1-11/16
AH052	1/4	4-3/4	2-1/2
AH053	3/8	5-3/16	2-1/2
AH083	3/8	6-1/16	2-1/2
AH162	1/4	6-15/16	2-1/2
AH163	3/8	6-3/4	2-1/2
AH164	1/2	7	2-1/2
AH305	5/8	10-3/16	3





CAPACITIES AND SELECTION RECOMMENDATIONS

		Ca	pacities (F				ditions)		_		Selection Recommendation (Nominal Ratings-tons)														
		_		er Capaci									Air Cond	Ir Conditioning											
	Filter	R-		R-2	_	R-5			acity @			nmercial			OEM			d Replace							
Model Number	Area Sq. In.	(15p	pm)	(60 p	om)	(30 p	pm)	pre	essure d	lrop	Ten	ıp. Equip	ment	S	elf-contai	ned	or	Field Buil	t-up						
Number	3q. III.	75°F	125°F	75°F	125°F	75°F	125°F	R-12	R-22	R-502	R-12	R-22	R-502	R-12	R-22	R-502	R-12	R-22	R-502						
032	10	33.8	30.6	31.0	28.8	29.7	27.0	1.8	2.4	1.6	1/4	1/4	1/4	3/4	1	3/4	1/2	3/4	1/2						
032S				•				2.0	2.6	1.7															
052								2.0	2.6	1.7		1/2		1	1-1/2	1	3/4	1	3/4						
052S	17	71.5	64.7	65.6	60.8	62.7	57.0	2.1	2.8	1.8	1/3		1/3												
053		-				-		4.2	5.5	3.7		1		2	3	2	1-1/2	2-1/2	1-1/2						
053S								5.0	6.6	4.4															
082								2.0	2.6	1.8	1/2	3/4	1/2	1	1-1/2	1	3/4	1-1/2	3/4						
082S								2.2	2.9	1.9					_										
083	27	116.5	105.5	107.0	99.1	102.0	93.0	4.7 5.3	6.2	4.1		2		3	5	3	2	3	2						
083S											1		1		7.4/0										
084 084S								7.5	9.8	6.6 6.7		3		4	7-1/2	4	3	5	3						
162								2.3	3.1	2.0	1	1-1/2	3/4	1-1/2	2	1-1/2	1	2	1						
162S								2.5	3.1	2.2	'	1-1/2	3/4	1-1/2	2	1-1/2	ļ !	2	'						
1623						181.0		5.6	7.5	4.9	2	3	2	4	5	4	3	4	3						
163S								6.2	8.3	5.4	2	3		4	3	-	3	7	3						
164	34	206.0	187.0	190.0	176.0		181.0	181.0	181.0	181.0	181.0	181.0	181.0	165.0		12.7	7.8		4		5	7-1/2	5	3	5
164S								10.3	13.7	8.9	2	-	2	U	7 1/2										
165								13.3	17.7	11.6	_	5	1 -	7-1/2	10	7-1/2	5	7-1/2	5						
165S								13.7	18.3	11.9		Ü				,_		,_							
303								5.7	7.7	5.0	3	4	2	4	5	4	3	5	3						
303S								6.5	8.7	5.7															
304								11.3	15.1	9.8	3	5	3	7-1/2	10	7-1/2	5	7-1/2	5						
304S	61	416.0	377.0	383.0	355.0	365.0	333.0	13.1	17.5	11.4															
305								15.5	20.7	13.5		7-1/2		10	15	10		10							
305S								17.1	22.8	14.9	5		- 5				7-1/2		7-1/2						
307S								21.2	28.3	18.5		10		15	20	12-1/2		12-1/2							
413								5.7	7.7	5.0			4	5	7-1/2	5		5	4						
414								11.4	15.3	9.9	4	5	5	7-1/2	10	7-1/2	5	7-1/2	5						
414S	60	611.0	554.0	562.0	521.0	536.0	489.0	13.1	17.5	11.4															
415	00	011.0	334.0	302.0	321.0	300.0	400.0	15.5	20.7	13.5		7-1/2		10	15	10	7-1/2	10	7-1/2						
415S								17.1	22.9	14.9	7-1/2		7-1/2						——						
417S								24.3	32.4	21.1		10		15	20	12-1/2	10	15	10						
756S	131	1072.0	972.0	986.0	915.0	940.0	858.0	20.7	27.6	18.0	12-1/2	20	1-1/2	15	25	12-1/2	12-1/2	20	12-1/2						
757S								25.6	34.2	22.3	15	20	12-1/2	20	30	15	15	25	15						
759S								28.3	37.7	24.6	20	25	15	20	30	20	20	30	20						



REFRIGERATION PRODUCTS AND ACCESSORIES

GENERAL PURPOSE SOLENOID VALVES

PILOT OPERATED SOLENOID VALVES - TYPE I

COMMON FLUIDS 0°F TO 225°F

APPLICATIONS:

These general service two way valves are designed for normally closed operation with a wide range of non-corrosive fluids and gases.

GENERAL SPECIFICATIONS:

- FORGED BRASS BODY
- MAX MOPD 150psi
- MIN MOPD 1psi
- SWP 200psig

PART #	PIPE SIZE NPT	PORT SIZE INCHES	FLOW COEFFICIENT Cv
GP200	1/4"	5/16	.98
GP300	3/8"	1/2	3.35
GP400	1/2"	1/2	3.35
GP600	3/4"	3/4	7.40
GP10A	1"	1	12.20

^{*}COILS SOLD SEPARATELY

PILOT OPERATED SOLENOID VALVES - TYPE II

COMMON FLUIDS -20°F - 240°F

APPLICATIONS:

These two-way normally closed valves are for common fluid applications including water (to 180°F), light oils, fuel oils and other non-corrosive liquids.

GENERAL SPECIFICATIONS:

- CAST BRONZE BODY
- TEFLON DIAPHRAGM
- MAX MOPD 150psi
- MIN MOPD 2psi
- SWP 200psig

PART #	PIPE SIZE	PORT SIZE	FLOW COEFFICIENT
	NPT	INCHES	Cv
GP20X	2"	2	56.00

^{*}COILS SOLD SEPARATELY



PILOT OPERATED SOLENOID VALVES - TYPE III APPLICATIONS:

These two-way normally closed valves are for water (over 180°F) and steam service at temperatures to 240°F and 1 to 10 psi steam.

GENERAL SPECIFICATIONS:

- FORGED BRASS BODY
- TEFLON DIAPHRAGM
- MAX MOPD 150
- MIN MOPD 1
- SWP 200 psig

PART #	PIPE SIZE NPT	PORT SIZE INCHES	FLOW COEFFICIENT Cv
GP207	1/4"	5/16	.98
GP307	1/2"	1/2	3.35
GP407	1/2"	1/2	3.35
GP607	3/4"	3/4	7.40
GP1007	1"	1	12.20

^{*}COILS SOLD SEPARATELY

COILS

MODEL # / VOLTAGE
G23MM110V
G23MM208/230V
G23MM24V



GAUGES

Vari-Angle Thermometers

Weiss 9" Scale Vari-angle® Thermometers are the industry standard for HVAC applications. Union connection stem is offered for pipeline applications, for chilled and hot water installations with a 3-1/2" stem. Perforated 6" stem with a mounting flange is for air duct use.

UŅION CONN. STEM					
CAT. NO. RANGE SIZE					
9VS-110*	40-0-110F&C	9"			
7VS-110*	40-0-110F&C	7"			
7VS-240*	30-240F&C	7"			

^{*}E35-75BS well required.



6" Glass Thermometers

The Weiss 6" Navay Class Thermometer is compactly designed, ruggedly constructed and has excellent readability. The red-reading mercury-in-glass tube maintains accuracy despite vibrations and shock.

UNION CONN. STEM					
CAT. NO. RANGE SIZE					
5AS2	40-240F	6"			
5SS2*	40-240F	6"			

^{*}Straight shank



5AS2

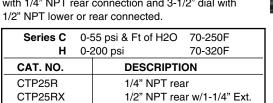
Tri-O-meters

CPT40RSX

CTP40L

HTP40L

The Weiss Tri-O-meter is designed for use on all types of hot water heating systems. One instrument reads the water pressure, water temperature and system head in feet of H2O. Available in 2-1/2" dial with 1/4" NPT rear connection and 3-1/2" dial with 1/2" NPT lower or rear connected.



1/2" NPT rear

1/2" NPT lower

1/2" NPT lower



Hot Water Thermometers

The Weiss 6" Hot Water Thermometer is our most economical offering in industrial glass thermometers. The unit features components of non-corrosive materials and its compact design and excellent readability makes the HW Series ideal for a variety of general purpose applications. Typical applications include small pipe lines, residential and commercial boilers, solar heating systems.

UNION CONN. STEM						
CAT. NO. RANGE SIZE						
HW5S2	40-260F	6"				
HW5A2*	40-260F	6"				

^{*}Angle shank



Trade Line Pressure Gauges

Weiss TL Gauges are intended for general service conditions, for pressure or vacuum on air, oil, water, gas or other mediums that do not attack brass. TL Gauges are furnished in drawn steel cases, finished in black. 2" dial versions are available with 1/4" or 1/8" NPT connections. All other dial sizes are 1/4" NPT. All gauges conform with ANSI B40.1 accuracy Grade B - 2% mid scale.

2-1/2" DIAL 1/4" NPT LOWER CONN.				
CAT NO.	RANGE			
TL25-015	0-15 PSI			
TL25-030	0-30 PSI			
TL25-060	0-60 PSI			
TL25-100	0-100 PSI			
TL25-100MR	LAZY HAND			
TL25-160	0-160 PSI			
TL25-200	0-200 PSI			
TL25-200MR	LAZY HAND			
TL25-300	0-300 PSI			
TL25-VAC	-30-0 VAC			
TI 25P30-CRM	0-30 PSI			

3-1/2" DIAL 1/4" NPT LOWER CONN.		
CAT NO.	RANGE	
TL35-015	0-15 PSI	
TL35-030	0-30 PSI	
TL350-30-CBM	0-30 Ctr Btm Mt	
TL35-060	0-60 PSI	
TL35-100	0-100 PSI	
TL35-160	0-160 PSI	
TL35-300	0-300 PSI	
TL35VP-30-0-30	-30-0-30 PSI	

4-1/2" DIAL 1/4" NPT LOWER CONN.		
CAT. NO.	RANGE	
TL45-015	0-15PSI	
TL45-030	0-30 PSI	
TL45-060	0-60 PSI	
TL45-100	0-100 PSI	
TL45-160	0-160 PSI	
TL45-300	0-300 PSI	
TL45-VAC	-30-0 VAC	
TL45VP-30-0-30	-30-0-30 PSI	

Dynatemp

REFRIGERANT

R-410A

R-410A is an azeotropic mixture of HFC-32 and HFC-125, with near-zero glide allowing for both

predictable performance and easy handling and recycling. Millions of R-410A air conditioners have been sold around the world, and over 25 equipment manufacturers now offer an R-410A option in their product line.



R421A

R421A is a unique non-ozone depleting green long term replacement for R22 refrigerant. R421A does not contain hydrocarbons such as Butane or Isobutane. Replaces R22 with no change of oil and is usable in R22 compressors. R421 is also comparable to R22's performance temperature. R421A is a two component blend packaged with a proprietary lubricant which should be transferred from the cylinder in the liquid phase,



R22

Genetron 22 is a single-component HCFC refrigerant manufactured to meet the tightest of manufacturer's specification, and can be used to service any equipment designed to use R-22. R-22 is popular in residential, commercial and industrial applications.



Nu-Calgon

Rx11-flush is a unique solvent engineered specifically for flushing refrigeration and air conditioning systems. Based on patented HFC solvents developed by DuPont®, Rx11-flush is ozone-safe, nontoxic, and non-flammable. Used exactly like the old R-11 flushing process, its patented HFC based solvent formulation is powerful enough to flush away sludge, carbon residues, oils, acids, water and other particulate. It enhances system's service life and avoids the need for time-consuming repeat visits. Rx11-flush is ideal for system flushing after burnouts, during retrofits and for flushing line sets for R-410A conversions.

Rx11-flush has been the industry's standard for over a decade and contractors agree, it's the best flush for R-410A retrofits and after compressor burnouts. Over one million tons of system capacity has been successfully flushed with Rx11-flush solidifying its proven track record.

Rx11 Flush



#430009



#430099 Injection Valve