

2008 EQUIPMENT CATALOG

Updated April 1, 2008

*****Call For Current Pricing*****

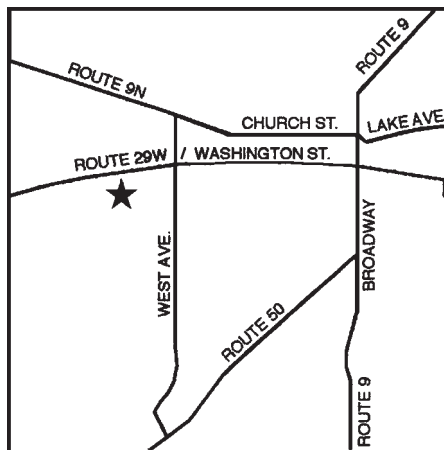
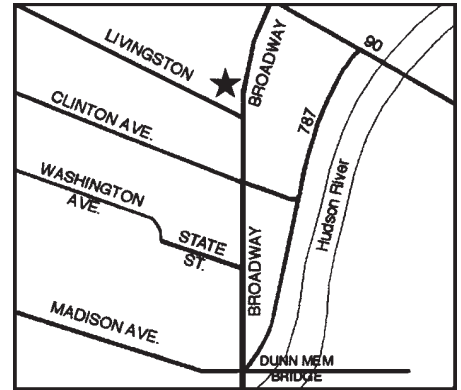
- **Boilers**
- **Furnaces**
- **Air Conditioning**
- **Space Heaters**
- **Water Heaters**
- **Radiation**
- **Circulators**
- **Controls**
- **Sheetmetal**
- **Registers**
- **Chimney Systems**
- **Oil Tanks & Acces.**
- **Well Pumps**
- **Water Systems**

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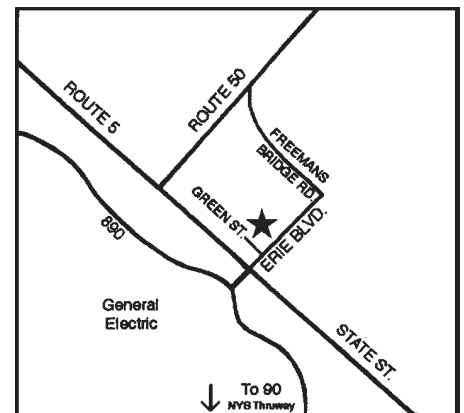
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For Qualified Tradesmen Only

All title to pricing herein is retained by Capitol District Supply Co. It is not automatically granted to bearer.

A qualified tradesman is an installer or service company properly licensed and experienced to install & adjust the equipment herein in accordance with all codes and ordinances and who will be responsible for any needed warranty repairs.

THIS CATALOG FOR QUALIFIED TRADESMEN ONLY

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latest specials
and
volume pricing*

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*Call the nearest branch
to setup
your delivery
schedule*

DESIGN

*We offer computer air
conditioning, heating & cooling
designs with estimates.
Call your sales rep
for further details*

PRICING & SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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New Products



Tankless Water Heaters

Why Tankless?

- Endless Hot Water
- Space Savings & Easy Installations
- Money and Energy Savings
- High Quality
- Environmentally Friendly
- Many Applications



See page 20



Zoning for Warm Air and AC Systems for
Total Comfort in Every
Room in Your Home



Simple Installation, Simple Operation



New Construction and Retrofit

See page 58

Prestige Modulating- Condensing Boilers

*** New PE with Build In Water Heater ***



- 110, 175, 250, 399,000 Inputs
- New PE110 with built in 14 gal indirect water heater
- 95% Efficient
- Build in Indoor-Outdoor reset
- Stainless steel, lowest pressure drop highest water content on the market

New with built in
Indirect Water Heater

See page 6

WiStat



Controlled Air

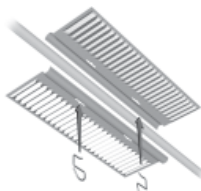
Wireless Thermostat
Great for Retrofit
Zoning Systems

See page 31



Ultra-Fin, Radiant made simple
Is now faster and easier to install!

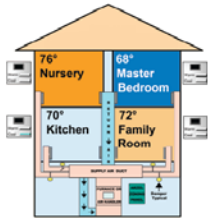
- New Clip Pins make fin installation a snap
- Down the bay snake hangers reduces tubing requirement and installation time.



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2007 EQUIPMENT CATALOG



**Simple Installation, Simple
Operation New Construction and
Retrofit**



**Easy to Install Slide in Air Driven
Damper
Can Pay for Itself in Energy
Savings**

Zoning for Warm Air and AC Systems for Total Comfort in Every Room in Your

Home Zoning Control Panel Selection Criteria

Panel Features	200 MPS	AirBoss
2 & 3 Zones	X	X
4, 6, & 8 Zones		X
Two Stage heat and Cooling		X
Leaving Air Temperature Control		X
Auto Changeover w/Htg/Clg Priority Select		X
Built in 2nd Stage Delay Timers		X
Dual Fuel (heat pump w/fossil fuel furnace)		X
Master Zone Control (zone 1 set back of all zones)		X
Enhanced (3 min) Purge Cycle (ECC)		X
Pre-equipped for Modulating Bypass (ModuPASS)		X
Automatic Bypass Capable		X
LED Diagnostics	X	X
Manual Pump Switch (MPS) Opens Dampers	X	X
ModuPass Capable (Factory or Field Install)	X	X
Heat Pump Compatible (All Electric)	X	X
Remote ODT-0 Emergency Heat Terminals	X	X
Short Cycle Protection (4 min comp. lock out)	X	X
Smart slave Capable (Factory or Field install)	X	X
FACT Capable (Factory or Field install)	X	X
Transformer Included	X	X

Bypass Sizing

What determines bypass need and size?

If the smallest zone moves less than 40% of the total cfm at design static, you might need a bypass duct.

Dynamics of Air Flow and Zoning

To maintain maximum heat transfer and peak effectiveness with the smallest zone calling, we attempt to deliver 200% of design cfm.

To deliver 200% of design cfm, we must increase static pressure by approximately 400 to 500%

In most applications the smallest zone can deliver twice the design cfm with out air noise issues.

Blower performance (cfm output) decreases up to 25% as the static pressure increases

Bypass air does not provide BTU exchange at equipment and is used solely to eliminate air noise caused by elevated static and velocity.

Velocity increases at the open branch runs and decreases at the main trunk and equipment.

Variables that influence Bypass Sizing

If Equipment Size is larger than 5 tons, the blower has the capacity to deliver higher static pressure. (Use 400 CFM/ton in step 1)

If location of smallest zone is very close to equipment and has minimal friction, next size larger bypass might be appropriate.

If the smallest zone is far from equipment and has significant friction, you might need to decrease bypass size.

If the size of the smallest zone (sq ft) compared to cfm output at 200% increase is out of balance, it may require larger bypass. Excessive cfm into a small area might cause overshooting of thermostat set-point.

See Catalog or Web page for more details

Bypass Sizing Chart

Arzel Zoning Technology Bypass Sizing Chart			
(1) Total cfm @ max static			
Minus (2) CFM of smallest zone @ max static			
Equals (3) Size bypass for remaining cfm (@ 1500-2000fpm)			
(1) Approx CFM @ Max static	(2) Max CFM of smallest zone		
A/C tonnage	CFM	BRANCH DUCT SIZE	CFM @ 1000fpm
2	600	5" Round	140 CFM
2.5	750	6" ROUND	200 CFM
3	900	7" ROUND	280 CFM
3.5	1050	8" ROUND	340 CFM
4	1200	10" ROUND & 8"X 10"	550 CFM
5	1500	8" X 12"	600 CFM
		8" X 14" - 10"X 12"	700 CFM
		12" Round & 8" X 16"	800 CFM
Over 5 ton use 400 cfm/ ton		8" X 20"	1000 CFM
		10" X 20"	1260 CFM
Subtract (2) from (1) for Required Bypass CFM (3)			
Size Bypass Duct per Chart below			
(3) CFM @ 1500-2000fpm	ROUND Hard Pipe	RECTANGLE Metal Duct	
300 to 400	6"	3.25" X 10"	
400 to 550	7"	3.25" X 12"	
500 to 750	8"	8 X 6	
750 to 1150	10"	8 X 10	
1150 to 1600	12"	8 X 16,	10 X 12
1600 to 2100	14"	8 X 20,	10 X 16
Over 2100 cfm Bypass Requirements, use 2 Bypass Ducts			

www.arzelzoning.com or 1-800-611-8312 Technical Support



200 MPS Series Economy Panel Two and Three Zone Systems

FEATURES: TWO OR THREE STAGE, STANDARD
THERMOSTAT, SINGLE STAGE WIRING, SLAVE ZONES
MAY BE ADDED

ARZ-	Description	
PAN-00202	202 MPS Unit	
PAN-00203	203 MPS Unit	

Barometric ByPass Dampers for MPS Panels



ARZ-	Description	
SPD-R0008	Barometric Damper Round 8	
SPD-R0010	Barometric Damper Round 10	

AirBoss Panels (ARZPAN-AB) 2-8 Zones



Deluxe Panel w/Modulating Bypass Port

RESIDENTIAL AND COMMERCIAL FEATURES: USE ANY STANDARD
THERMOSTAT, SINGLE OR TWO STAGE HEATING AND COOLING, 3 WAY
PRIORITY (HEAT, COOL OR AUTOMATIC) ALLOWS AUTOMATIC NIGHT
SETBACK FROM ONE CONTROL, BUILT IN LAT LEAVING AIR
TEMPERATURE CONTROL, COMPRESSOR SHORT CYCLING PROTECTION,
AUTOMATIC STATIC PRESSURE BYPASS DAMPER AVAILABLE, UNLIMITED
SMART SLAVE ZONES,

ARZ-	Description	
PAN-AB002	AirBoss Unit - 2 Zones w/Mod Byp Port	
PAN-AB003	AirBoss Unit - 3 Zones w/Mod Byp Port	
PAN-AB004	AirBoss Unit - 4 Zones w/Mod Byp Port	
PAN-AB006	AirBoss Unit - 6 Zones w/Mod Byp Port	
PAN-AB008	AirBoss Unit - 8 Zones w/Mod Byp Port	

Modulating ByPass Kit for AirBoss Panels



ARZ-	Description	
MOD-BYP08	Modulating Bypass Kit 8	
MOD-BYP10	Modulating Bypass Kit 10	
MOD-BYP12	Modulating Bypass Kit 12	

Slave Zones

Open and closes
dampers but does not turn
heat or cool equipment on
only open when a large
zone is running in the same
mode, great for small
zones.



ARZ PAN-SSZN1
Factory Installed
Special Order

ARZ PAN-SLVKT
Field Installed Special
Order

AloneZones

Stand-alone panel
provides economical solution
to over conditioning of a
specific area with interfacing
with equipment. Just closed
damper when area is at
setpoint



Tool Kit

Puts everything to install in one
case, includes : 1-Duct Finder, 1
EzyHub, 1 air flow indicator, 1
stapler, 2 boxes staples, 200
screws, 200 tees, 25 elbows,
plugs, couplings easy to fill



Arzel EasySlide Dampers

Round 4" to 16"
w/template



ARZ-	Description	
STK-ER0004	4 Round Damper w/template	
STK-ER0005	5 Round Damper w/template	
STK-ER0006	6 Round Damper w/template	
STK-ER0007	7 Round Damper w/template	
STK-ER0008	8 Round Damper w/template	
STK-ER0010	10 Round Damper w/template	
STK-ER0012	12 Round Damper w/template	
STK-ER0014	14 Round Damper w/template	

EzySlide Rectangular Bottom
Mount from 4" to 40" and up to
20" tall



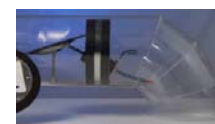
ARZ-	Description	
STKSB-E 8X18	8 x 8 EzySlide Damper BotMt	
STKSB-E 8X10	8 x 10 EzySlide Damper BotMt	
STKSB-E 8X12	8 x 12 EzySlide Damper BotMt	
STKSB-E 8X14	8 x 14 EzySlide Damper BotMt	
STKSB-E 8X16	8 x 16 EzySlide Damper BotMt	
STKSB-E 8X18	8 x 18 EzySlide Damper BotMt	
STKSB-E 8X20	8 x 20 EzySlide Damper BotMt	
STKSB-E 8X22	8 x 22 EzySlide Damper BotMt	
STKSB-E 8X24	8 x 24 EzySlide Damper BotMt	

EzySlide Rectangular Side
Mount from 4" to 40" and up to
20" tall



ARZ-	Description	
STKSS-E 8X 8	8 x 8 EzySlide Damper SidMt	
STKSS-E 8X10	8 x 10 EzySlide Damper SidMt	
STKSS-E 8X12	8 x 12 EzySlide Damper SidMt	
STKSS-E 8X14	8 x 14 EzySlide Damper SidMt	
STKSS-E 8X16	8 x 16 EzySlide Damper SidMt	
STKSS-E 8X18	8 x 18 EzySlide Damper SidMt	
STKSS-E 8X20	8 x 20 EzySlide Damper SidMt	

Inserta Dampers 6"-8"



Installs through trunk duct when takeoff or branch feed
is not accessible. Just cut access hole in bottom of
trunk and insert dampers into takeoff. Dampers are
held in place using Arzel's patented Internal Damper
Clamp

ARZ-	Description	
INSRT-6	6" Inserta Damper	
INSRT-7	7" Inserta Damper	
INSRT-8	8" Inserta Damper	

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RegiDampers at Register Dampers

Slips easily into your registers boot at the floor damper and Plenum rated tubing is fished back through ductwork



ARZ-	Description	
REG-2X10	Regidamper 2 x 10	
REG-2 X12	Regidamper 2 x 12	
REG-4 X10	Regidamper 4 x 10	
REG-4 X12	Regidamper 4 x 12	

Fittings and Tubing



ARZ-	Fittings Description	
FIT-TC025	BLACK COUPLING 4mm Barb Qty 25	
FIT-TE025	BLACK ELBOW 4mm Barb Qty 25	
FIT-TP025	BLACK PLUG 4mm Barb Qty 25	
FIT-TT025	BLACK TEE 4mm Barb Qty 25	
ARZ-	Tubing Description	
PVC-BLUE	Black PVC w/BUE stripe 200'	
PVC-GREEN	Black PVC w/GREEN stripe	
PVC-ORANGE	Black PVC w/ORANGE stripe	
PVC-PINK	Black PVC w/PINK stripe	
PVC-PURPLE	Black PVC w/PURPLE stripe	
PVC-RED	Black PVC w/RED stripe	
PVC-WHITE	Black PVC w/WHITE stripe	
PVC-YELLOW	Black PVC w/YELLOW stripe	
ARZ-	Plenum Rated High Temperature Tubing	
PLEN-BLACK	Plenum Tubing - Black 250	
PLEN-BLUE	Plenum Tubing - Blue	
PLEN-GREEN	Plenum Tubing - Green	
PLEN-ORANGE	Plenum Tubing - Orange	
PLEN-PURPLE	Plenum Tubing - Violet	
PLEN-RED	Plenum Tubing - Red	
PLEN-WHITE	Plenum Tubing - White	
PLEN-YELLOW	Plenum Tubing - Yellow	

Tools



ARZ-	Description	
EZYHUB	Air Distribution Reservoir	
TOOL-AIRFLOW	Airflow Indicator	
DUCTFINDER	Duct Finder	
TOOL-GUN	Stapler	
TOOL-STPLS	Staples	
TOOL-KIT	Tool Kit w/stapler	

Hydronic Zone Valve Control Board



Integrate Forced Air Cooling and Hydronic or Radiant Heat, simplifies wiring and prevents call backs.

ARZ-PAN-ZVICTRL

Fresh Air Control Technology FACT



Allows control of Fresh Air into HVAC system. Use with enthalpy, outdoor thermostat or timer to control outdoor air for fresh air on outdoor air cooling.

ARZPAN-FRESH
Call for details

ZoneCity High



Zoning for High Velocity small duct systems available in 2 and 3 zone configurations includes Zoning panel, truck dampers, and tubing

Call for Details

Zone Interface Panel
For IntelliZone and Harmony ECM Motor system available for 4 and 8 zone systems

ARZ-PAN-INTFAC

Call for Detsails

Bypass Control Options

ModuPass Bypass Control Features

- Provides Level of control required for Variable Speed Drives (Eliminates Hunting)
- Adjustable range of .05" to 1" wc static
- Modulates to maintain a constant "maximum" static
- Truly Modulating (not floating) bypass control
- Compensates for slightly oversized bypass duct.
- Self-adjust to meet various bypass requirements in system
- AirBoss panels are equipped for ModuPass connection
- Can be field installed in 200-MPS series panels

Barometric Bypass Control Features

- Least Expensive bypass system
- Meets basic (non variable speed) 2 & 3 zone bypass requirements
- Provides minimal level of static pressure control

Automatic (open/closed) Bypass Control

- Pressure switch operated
- Adjustable range of .05" to 12" wc static
- Will hunt (float) to meet various bypass requirements
- Available as kit for the AirBoss panels only (Prt# BYP-00KIT)
- Required for Larger (14") commercial Bypass ducts

Questions? Call Capitol or Arzel
Application/Technical Support
at 1-800-611-8312

Duct Evaluation Charts

Important Note:
We are in a period of
frequent price fluctuation.



Visit us on the web at
www.capitoldistrictsupply.com

Capitol
DISTRICT SUPPLY

Residential CFM Information for Evaluating Existing Duct Systems									
Based on .10 available static pressure, galv. pipe, with a total lenght of run 100' with fittings.									
Air flow to runs longer than 100' (w/ fitting loss) could be much less or none at all.									
We recommend sizing system using Man J Heat lLoss and Man. D. Duct Design Procedures.									
For Sound control use ACCA recommended velocity range at bottom of page.									
Flex duct will have less air flow and should not be run more than 14 ft *									
Air	Stock	Stock	(65 d.rise)	(400 cfm/ton)					Rd Pipe
Volume	Galv	Trunk	Heating	Cooling	AC	Trunk	Trunk	Trunk	FPM Prox
CFM	Round	8"x	Btu	BTU	Tonage	6"x	10"x	12"x	Velocity
35	4		2,503	1,050	0.09	Galv.	Galv.	Galv.	400
50	5		3,575	1,500	0.13		Wall Stack		400
75	6		5,363	2,250	0.19		3.25x10		400
100	6		7,150	3,000	0.25	6x6	3.25x10		500
125	7		8,938	3,750	0.31	6x6	3.25x12		500
150	7		10,725	4,500	0.38	8x6	3.25x12		600
175	8		12,513	5,250	0.44	8x6			500
200	8		14,300	6,000	0.50	8x6			600
225	8	Galv.	16,088	6,750	0.56	10x6			650
250	9		17,875	7,500	0.63	10x6			600
275	9	8x8	19,663	8,250	0.69	12x6			650
300	9	8x8	21,450	9,000	0.75	12x6			700
400	10	10x8	28,600	12,000	1.00	14x6			750
500	11	12x8	35,750	15,000	1.25	18x6	10x10		750
600	12	14x8	42,900	18,000	1.50	20x6	12x10		800
700	12	16x8	50,050	21,000	1.75	24x6	12x10		900
800	13	18x8	57,200	24,000	2.00	26x6	14x10	12x12	900
900	14	20x8	64,350	27,000	2.25		16x10	14x12	850
1,000	14	22x8	71,500	30,000	2.50		18x10	14x12	950
1,100	15	24x8	78,650	33,000	2.75		18x10	16x12	900
1,200	15	26x8	85,800	36,000	3.00		20x10	16x12	1000
1,300	16	28x8	92,950	39,000	3.25		22x10	18x12	950
1,400	16	30x8	100,100	42,000	3.50		22x10	18x12	1000
1,500	16		107,250	45,000	3.75		24x10	20x12	1100
1,600	17		114,400	48,000	4.00		26x10	20x12	1000
1,700	17		121,550	51,000	4.25		26x10	22x12	1100
1,800	18		128,700	54,000	4.50		28x10	22x12	1000
1,900	18		135,850	57,000	4.75		30x10	24x12	1100
2,000	18		143,000	60,000	5.00		30x10	24x12	1150
CFM=Heating Load btu/h/1.1x(Furnace Temp Rise)									
Velocity= CFM/cross-sectional area (sq. ft.)									
Room CFM= Blower CFM x Room Load/ Total Load									

Residential Recommended Velocity (FPM) from Man D ACCA								
	Supply Side				Return Side			
	Recommended		Maximum		Recommended		Maximum	
	Rigid	Flex	Rigid	Flex	Rigid	Flex	Rigid	Flex
Trunk Ducts	700	600	900	700	600	600	700	700
Branch Ducts	600	600	900	700	400	400	700	700
Supply Outlet Face Velocity	Size for Throw							
Return Grill Face Velocity							500	
Filter Grille Face Velocity							300	

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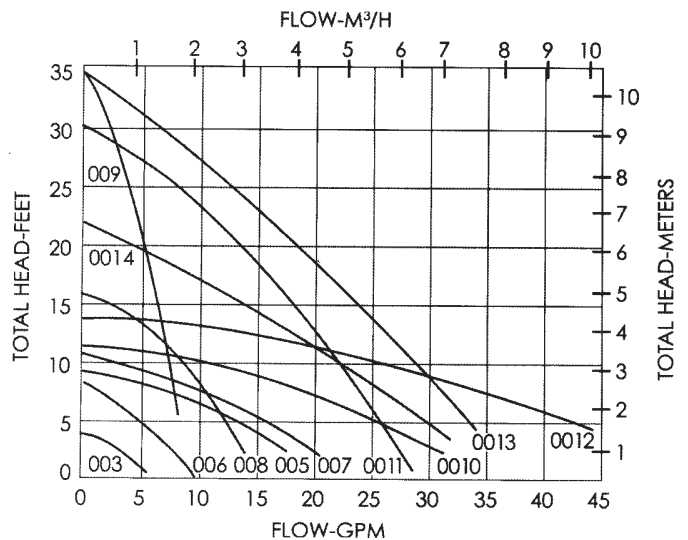
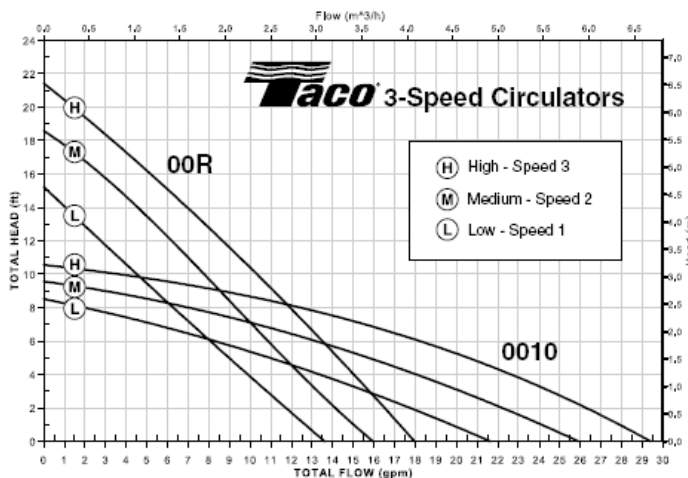


Hydronic Hot Water Piping and Circulator Sizing Worksheets

Hydronic Pipe-Pump Sizing chart for copper tubing, has fitting allowance built in																		
Based on 20 degree drop in temperature across run																		
Available HEAD ft. of water	Total length of circuit (as measure on piping plan)																	
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
4	35	45	50	60	65	70	75	80	90	100	110	130	150	180	220	290	400	620
5	45	60	65	70	80	90	100	100	120	130	140	160	190	230	290	360	510	790
6	55	70	80	90	100	110	120	130	140	160	180	200	240	290	350	450	620	950
7	65	90	100	110	120	130	140	150	170	190	210	240	290	340	420	540	730	1120
8	75	100	110	130	140	150	160	180	200	220	250	290	330	400	490	620	850	
9	85	110	130	150	160	170	190	200	230	250	290	330	380	450	560	710	950	
10	100	130	140	170	180	190	210	230	260	290	320	370	430	510	620	790	1060	
11	110	140	160	190	200	220	240	260	290	320	360	410	480	570	690	880	1170	
12	120	160	180	200	220	240	260	290	320	350	400	450	530	620	760	960		
14	150	190	210	250	260	290	310	340	380	420	470	540	620	730	900	1120		
16	170	220	250	290	310	330	360	400	440	490	550	620	720	850	1020			
18	190	250	290	330	350	380	420	450	500	560	620	710	830	950	1150			
20	220	290	320	370	400	430	470	510	560	620	700	790	910	1060				
Pipe Size	Gallon Per Minute Capacity																	
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
3/8"	0.9	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2
1/2"	2.3	2.0	1.9	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.2	1.2	1.1	0.9	0.8	0.7	0.6
3/4"	5.0	4.3	4.1	3.8	3.7	3.6	3.4	3.2	3.1	2.9	2.8	2.6	2.4	2.2	2.0	1.8	1.6	1.3
1"	9.6	8.3	7.7	7.3	7.0	6.8	6.5	6.3	5.9	5.7	5.5	5.0	4.6	4.3	3.8	3.4	2.9	2.3
1-1/4"		18.0	17.0	16.0	15.5	15.0	14.5	14.0	13.0	12.0	11.5	11.0	9.7	9.0	8.3	7.3	6.3	4.8
1-1/2"		27.0	25.0	24.0	23.0	22.0	21.0	20.0	19.0	18.0	17.0	16.0	15.0	13.0	12.0	11.0	9.3	7.5
2"						42.0	40.0	39.0	38.0	36.0	34.0	32.0	29.0	27.0	24.0	21.0	18.0	14.0
2-1/2"									60.0	57.0	54.0	52.0	47.0	44.0	38.0	32.0	29.0	24.0

How to use hydronic pipe-pump sizing chart

Trial Pump Sizing: Enter the lower portion of the table in the left hand column at trial pipe size. Read across to figure equal to or greater than the gpm needed. 1 gpm = approx 10,000 btu/hr @ 20 degree drop. Read upper portion of table to figure closest to total length of circuit. Read across to the left hand column to determine the pump head required. See Taco circulator chart to match gpm and head to heating circuit in question. Chart can also be used in opposite direction stating with heat, length or run going down to gpm and recommended pipe size.



Taco Circulator 00 Series Specs

Important Note:
We are in a period of
frequent price fluctuation.

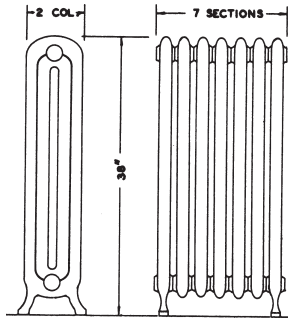


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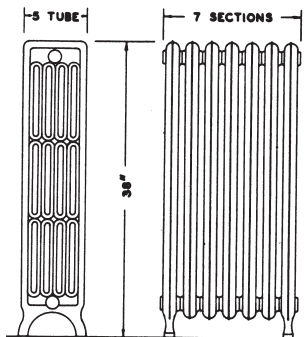
Cast Iron Radiator Sizing Charts to calculate square feet or heating surface area,
see bottom of page for conversion to btu/hr

Information needed: Height in inches, number of tubes or columns looking at side of radiator and number of sections looking at front of radiator



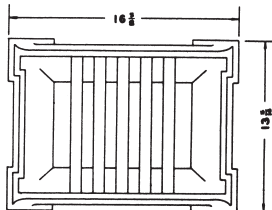
SIZE SHOWN 28 SQ.FT. RADIATION

Cast Iron Radiators Sizing Worksheet					
Column Type Radiators					
Height Inches	One column	Two Column	Three Column	Four Column	Window
13	***	***	***	***	3
16	***	***	***	***	3.75
18	***	***	2.25	3	4.25
20	1.5	2	***	***	5
22	***	***	3	4	***
23	1.66	2.33	***	***	***
26	2	2.66	3.75	5	***
32	2.5	3.33	4.5	6.5	***
38	3	4	5	8	***
45	***	5	6	10	***



SIZE SHOWN 35 SQ.FT. RADIATION

Tube Type Radiators					
Height Inches	Three Tube	Four Tube	Five Tube	Six Tube	Window Seven Tube
14	***	***	***	***	2.5
17	***	***	***	***	3
20	1.75	2.25	2.66	3	3.66
23	2	2.5	3	3.5	***
26	2.33	2.75	3.5	4	4.75
32	3	3.5	4.33	5	***
38	3.5	4.25	5	6	***



SIZE SHOWN 5 SQ.FT. RADIATION

Wall Type Radiators				
Type of Section	Height Inches	Length or Width, Inc	Thickness Inc.	Heating Sq Ft. Radiation
5-A	13	16.5	2-7/8	5
7-A	13	22	2-7/8	7
7-B	22	14	3	7
9-A	18.5	29	2-7/8	9
9-B	29	18.5	3-11/16	9

Heat output of Cast Iron Radiators per Sq. Ft

Water/Steam Design Temp	Typical output used for	btu/hr per sq ft of radiation
170	Hot Water	150
180		170
190		190
200		210
210		230
215	Steam	240

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Natural Gas Black Pipe Sizing Chart

**Natural Gas Capacity of Pipe
In Cubic Feet of Gas Per Hour (CFH)**

Length of Pipe in Feet	Nominal Black Pipe Size				
	1/2"	3/4"	1"	1 1/4"	1 1/2"
10	132	278	520	1050	1600
20	92	190	350	730	1100
30	73	152	285	590	980
40	63	130	245	500	760
50	56	115	215	440	670
60	50	105	195	400	610
70	46	96	180	370	560
80	43	90	170	350	530
90	40	84	160	320	490
100	38	79	150	305	460

(Pressure 0.5 psig or less and pressure drop of 0.3" W.C.; Based on 0.60 Specific Gravity Gas)

CFH = BTUH Furnace Input
Heating Value of Gas (BTU/Cubic Foot)

Propane Gas Pipe Sizing Chart

Sizing Between Single or Second Stage Regulator and Appliance*

Maximum Propane Capacities Listed are Based on 1/2" W.C. pressure drop at 11" W.C. setting. Capacities in 1,000 BTU/hour.

Pipe or Tubing Length, Feet	Tubing Size, O.D. Type L						Nominal Pipe Size Schedule 40				
	3/8"	1/2"	5/8"	3/4"	7/8"	1-1/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"
10	39	92	199	329	501	935	275	567	1,071	2,205	3,307
20	26	62	131	216	346	630	189	393	732	1,496	2,299
30	21	50	107	181	277	500	152	315	590	1,212	1,858
40	19	41	90	145	233	427	129	267	504	1,039	1,559
50	18	37	79	131	198	376	114	237	448	913	1,417
60	16	35	72	121	187	340	103	217	409	834	1,275
80	13	29	62	104	155	289	89	185	346	724	1,066
100	11	26	55	90	138	255	78	162	307	630	976
125	10	24	48	81	122	224	69	146	275	567	866
150	9	21	43	72	109	202	63	132	252	511	787
200	8	19	39	66	100	187	54	112	209	439	665
250	8	17	36	60	93	172	48	100	185	390	590

*Data in accordance with NFPA pamphlet NO. 54

TracPipe
Flexible Gas Piping by Omega Flex

Table N-1 Low Pressure (Standard)

Maximum Capacity of OmegaFlex TracPipe in Cubic Feet per Hour Natural Gas (1,000 BTU approx)

Gas Pressure: 6-7 in. W.C. Pressure Drop: 0.5 in. W.C. (based on a 0.6 Specific Gravity Gas)

		TUBING LENGTH (FEET)																
Size	(EHD)	5	10	15	20	25	30	40	50	60	70	80	90	100	150	200	250	300
3/8"	15	63	44	35	31	27	25	21	19	17	16	15	14	13	10	9	8	7
1/2"	19	134	95	77	67	60	55	47	42	38	36	33	32	30	23	21	19	17
3/4"	25	288	206	169	147	132	121	105	94	86	80	75	71	67	55	48	43	39
1"	31	546	383	310	269	240	218	188	168	153	141	132	125	118	94	82	74	67
1-1/4"	37	1109	789	646	561	503	460	399	358	327	303	284	268	254	208	181	162	148
1-1/2"	46	1790	1261	1027	888	793	723	625	559	509	471	440	415	393	320	277	247	226
2"	62	4142	2934	2398	2078	1860	1698	1472	1317	1203	1114	1042	983	933	762	661	591	540

Table P-1 Propane Low Pressure (Standard)

Maximum Capacity of OmegaFlex TracPipe™ in Thousands of BTU per Hour Propane Gas

Gas Pressure: 11 in. W.C. Pressure Drop: 0.5 in. W.C. (based on a 1.52 Specific Gravity Gas)

		TUBING LENGTH (FEET)																
Size	(EHD)	5	10	15	20	25	30	40	50	60	70	80	90	100	150	200	250	300
3/8"	15	99	69	55	49	42	39	33	30	26	25	23	22	20	15	14	12	11
1/2"	19	211	150	121	106	94	87	74	66	60	57	52	50	47	36	33	30	26
3/4"	25	456	325	267	232	209	191	166	149	136	126	118	112	106	87	76	68	62
1"	31	863	605	490	425	379	344	297	265	241	222	208	197	186	143	129	117	107
1-1/4"	37	1753	1247	1021	887	795	727	631	566	517	479	449	424	402	329	286	256	234
1-1/2"	46	2830	1993	1623	1404	1254	1143	988	884	805	745	696	656	621	506	438	390	357
2"	62	6547	4638	3791	3285	2940	2684	2327	2082	1902	1761	1647	1554	1475	1205	1045	934	854

TracPipe
Flexible Gas Piping by Omega Flex

TABLE V: Cable Length in Feet

1 Phase, 2 or 3 Wire Cable, 60 Hz. Copper Wire Size (Service to Motor)

Volts	HP	14	12	10	8	6	4	3	2	1	0
115V	1/2	100	160	250	390	620	960	1190	1460	1780	2160
230V	1/2	400	650	1020	1610	2510	3880	4810	5880	7170	8720
	3/4	300	480	760	1200	1870	2890	3580	4370	5330	6470
	1	250	400	630	990	1540	2380	2960	3610	4410	5360
	1-1/2	190	310	480	770	1200	1870	2320	2850	3500	4280
	2	150	250	390	620	970	1530	1910	2360	2930	3620
	3	120*	190	300	470	750	1190	1490	1850	2320	2890
	5	-	-	180	280	450	710	890	1110	1390	1740

Water Well Submersible Water Pump Wire Sizing Chart



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