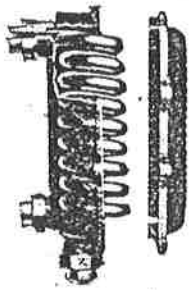
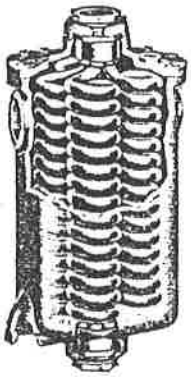
Capacities, Dimensions and Shipping Weights of Taco Heaters

SIZE OF TACO	CAPACITIES - Gallons in 3 Hours Heated from 40°F. to 140°F.			CAPACITIES Square Feet Hot Water Radiation		SIZE OF TACO	PIPE CONN.		Height Inches	Diameter Inches	Shipping Weight Lbs.
	Taco Below Water Line		TACO on Steam of 0 lbs. Gauge Pressure	TACO* below Water Line Boiler at 212°F.	TACO** on Steam of 0 lbs. Gauge Pressure		Boiler Conn. Inches	Tank Conn. Inches			
	Boiler Water at 212°F.	Boiler Water at 180°F.									
A	B	C	D	E	F	G	H	I	J	K	L
DOMESTIC TACO											
00	30					00	1	¾	7½	5⅛	10
0	30		40	15	20	0	1	¾	7½	5⅛	10
30	30		50	20	30	30	1	¾	10	5⅛	12
1	40		75	30	50	1	1	¾	12	5⅛	14
1A	52	26	100	40	65	1A	1	¾	15	5⅛	18
1B	66	33	125	50	85	1B	1¼	1	14	7⅛	22
2	82	41	150	60	100	2	1¼	1	16½	7⅛	27
2A	100	50	175	75	125	2A	1¼	1	17½	7⅛	31
2B	120	60	225	90	150	2B	1¼	1	19	7⅛	34
2C	144	72	275	105	175	2C	1½	1	19	9	50
3	160	80	300	120	200	3	2	1¼	21½	9	65
3A	200	100	375	150	250	3A	2	1¼	26	9	80
MULTI-COIL TACO											
M 60	250	125	450	210	300	M 60	2	1½	11	9¾	80
M 75	300	150	600	250	400	M 75	2	1½	13⅛	9¾	85
M100	400	200	750	320	500	M100	2½	2	13½	12	125
M125	500	250	900	420	600	M125	2½	2	15¾	12	140
M150	600	300	1200	500	800	M150	3	2½	16	14⅞	210
M200	800	400	1500	640	1000	M200	3	2½	20⅛	14⅞	250
Multi-Coil height represents measurement between supply and return connections to the Boiler.											
SUPER TACO											
20	1000	500	1500	640	1000	20	4	2½	45	11¾	280
25	1250	625	1875	800	1250	25	4	2½	54	11¾	350
35	1750	875	2625	1100	1750	35	4	4	55	14¼	500
50	2500	1250	3750	1600	2500	50	5	4	77	14¼	685
75	3750	1875	5625	2400	3750	75	5	5	81	19	1050
100	5000	2500	7500	3200	5000	100	6	6	84	21	1250
RENU-COIL TACO											
R10	40	20	75	30	50	R10	1	¾	11⅞	5⅞	20
R20	82	40	150	60	100	R20	1¼	1	15¼	8½	34
R40	160	80	300	120	200	R40	2	1¼	22⅝	9⅛	68
TACO NOS. 4, 5, 6											
4	320	160	600	250	400	4	2	2	28½	10	100
5	640	320	1200	500	800	5	2½	2½	41	12	190
6	960	480	1800	800	1200	6	3	3	43¾	13½	280

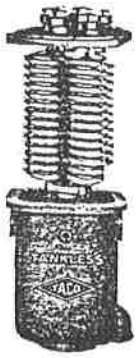
*Based on 120°F. inlet temp. to heater and 160°F. outlet temp.
**Based on 140°F. inlet temp. to heater and 180°F. outlet temp.



Domestic Taco



Multi-Coil Taco



Tankless Taco

TACO TEMPERING VALVE

Size Inches	Length	Shipping Weight Lbs.
¾ or 1	8½	7
1¼ or 1½	9	10
2	9	13

TACO FLUSH VALVE

Tank and Heater Conn.	Hose Conn.	Shipping Weight Lbs.
1 inch	¾ inch	4

TANKLESS TACO

Capacity	Pipe Conn.	Height Inches	Width Inches	Shipping Weight Lbs.
240 Gals. per Hour Boiler Water at 180°F.	2 inch	21	13½	155

TACO TANKS

TANK					UNIT		Capacities Gallons in 1 Hour			Shipping Weight Lbs. Galvanized
Capacity Gallons	Size Inches	Conn's Inches	Gauge Metal Galvanized		Heating Surface Square Feet	Conn's Inches	Heated from 50° to 150°F. Below Water Line		Heated from 50° to 180°F. Steam of 0 lbs. Gauge Pressure	
			Shell	Head			Boiler Water at 212°F.	Boiler Water at 180°F.		
40	14 x 60	6-1	10 Ga.-3/64	7 Ga.-3/16	6	2	80	40	120	202
66	18 x 60	6-1	10 Ga.-3/64	7 Ga.-3/16	6	2	80	40	120	263
82	20 x 60	6-1½	10 Ga.-3/64	7 Ga.-3/16	7½	2	100	50	150	296
100	22 x 60	6-1½	9 Ga.-7/64	7 Ga.-3/16	7½	2	100	50	150	318
120	24 x 60	6-1½	7 Ga.-3/16	3 Ga.-1/4	7½	2	100	50	150	450
144	24 x 72	6-1½	7 Ga.-3/16	3 Ga.-1/4	9	2	120	60	180	601
180	30 x 60	6-1½	7 Ga.-3/16	3 Ga.-1/4	13½	3	180	90	270	800

Galvanized (Copper Bearing Steel) 300 lbs. Test Pressure, 127½ lbs. Working Pressure.
Copper or Everdur 250 lbs. Test Pressure, 106¼ lbs. Working Pressure.

TYPICAL TACO INSTALLATIONS

(For Domestic Hot Water)

DOMESTIC TACO

Fig. H-1—Domestic Taco connected below the water line on coal-fired steam or vapor heating boiler. The boiler water, which is always at high temperature even if the fire is banked, circulates around the copper coil of the Taco. The domestic water circulates through the copper coil thus providing a constant supply of domestic hot water at all times.

Combustion is not interfered with and domestic water cannot overheat causing pounding in the tank and steaming at the faucet.

Pipe full size of Taco openings and install valves and drains as shown. Brass pipe is recommended between storage tank and Taco.

There are hundreds of thousands of these installations in successful operation.

See table of ratings, for coal-fired boilers, Column C, page 2.

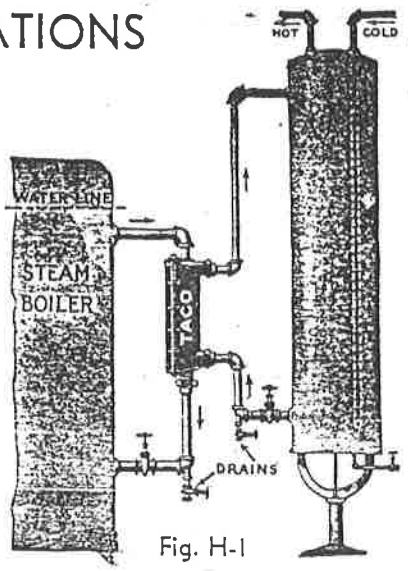


Fig. H-1

MULTI-COIL TACO

Fig. H-2

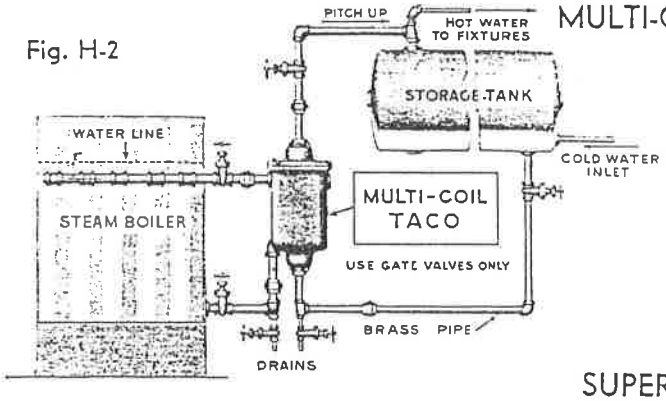


Fig. H-2—Multi-Coil Taco Attached to Sectional Steam Boiler. Suitable for use on any type of boiler for medium size jobs—Is similar to Domestic, only having multiple of coils whereas domestic has a single coil. By this arrangement the same effective sizing of coils is possible, with a minimum of neight nicely proportioned for connection to low water line boilers in capacities suitable for medium size installations.

SUPER TACO

Fig. H-3—Super Taco employs the heating principles hereinbefore described. The hot water flows from the boiler to the Taco and transmits heat through the copper tubes to the domestic water.

Super Tacos are installed vertically which assists the circulation of the heated domestic water to the hot water tank. Super Tacos are usually installed below the water line of the heating boiler but they may be installed partly above and partly below the water line.

The accompanying illustration shows a Super Taco connected to a steel heating boiler. The liberal boiler connections of the Super Taco, permitting the free circulation of the boiler water, make Taco Heaters especially suitable for larger installations. Connections can be quickly welded to the boiler to suit the Taco tappings.

Super Taco may also be connected to cast iron sectional boilers in which case a header or manifold for the supply to the Taco is installed below the water line with connections to one or more of the boiler sections.

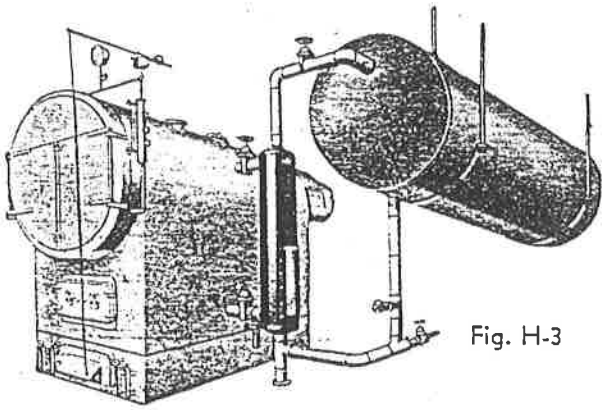


Fig. H-3

TACO NOS. 4, 5, 6

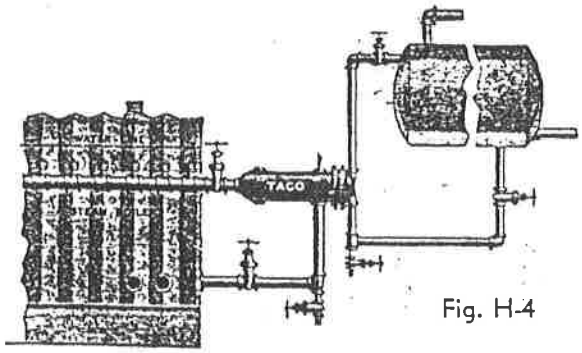


Fig. H-4

Fig. H-4—Taco Nos. 4, 5 or 6 installed entirely below the water line of a steam heating boiler using boiler water as the heating medium. This method of installation and type of Taco Heater are especially adaptable to low water line boilers.

In connecting this heater to sectional cast iron boilers a header or manifold is used on the supply to the Taco as shown. If the boiler is coal fired and used for winter operation only, one or more sections are tapped for connection to the manifold. If for all year round use or if oil is the fuel, all sections must be tapped. Taps should be made about 2 inches below the water line.

Round cast iron boilers and steel boilers require only one top connection to the Taco. See Figs. H-1 and H-3.

DOMESTIC TACO

The Domestic Taco is a patented indirect water heater consisting of a cast-iron shell containing a copper coil, as shown in Fig. H-5. It is designed primarily for installation below the water line of steam, vapor or vacuum system heating boilers, but has many other uses.

The shell is provided with suitable conveniently located tapped openings to receive the boiler connections. It is split vertically and provided with cleanout cover which permits the heater to be quickly and thoroughly cleaned without breaking any pipe connections. The coil is of copper tubing and is permanently expanded into the shell and tested to 1200 lbs. pressure, shell pressure 60 lbs., making positive assurance against leakage. Unions are provided for the purpose of reducing cost of installation.

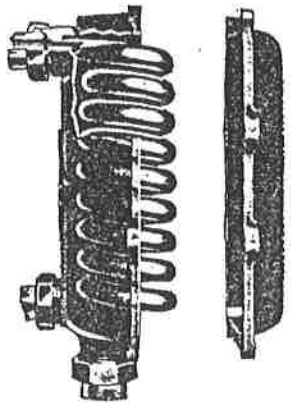


Fig. H-5

Domestic water is in contact with rustless copper or brass only (not iron); this is an important feature.

Furnished in sizes Nos. 00, 0, 30, 1, 1A, 1B, 2, 2A, 2B, 2C, 3 and 3A, suitable for installation with storage tanks from 20 gallons to 250 gallons capacity.

UNIONS: Nos. 0, 30, 1, 3 and 3A, two (2) unions each. Nos. 1A, 1B, 2, 2A, 2B and 2C, three (3) unions each, 00 without unions.

EXTRA TAPPINGS: Double side connections, 1A, 1B, 2, 2A, 2B, 2C, 3, 3A.

Typical installation of a Domestic Taco is shown on page 12. See Taco Abbott System, page 13, for use of Domestic Taco for year round (automatic) hot water supply.

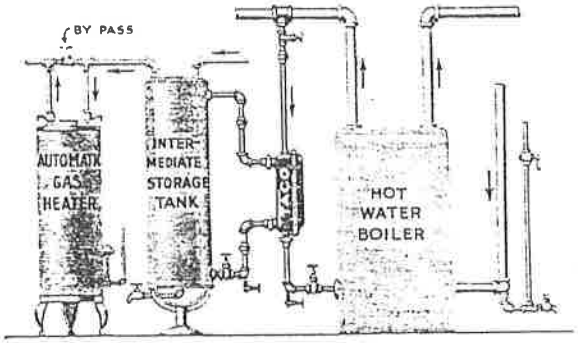


Fig. H-6

Hot Water Heating System Coal Fired

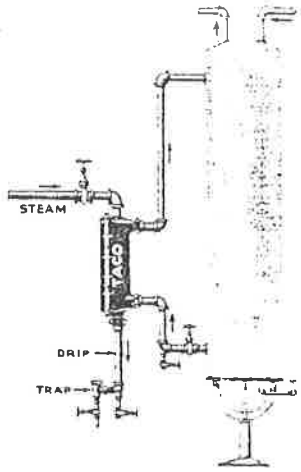


Fig. H-7

Heating Water with Live Steam

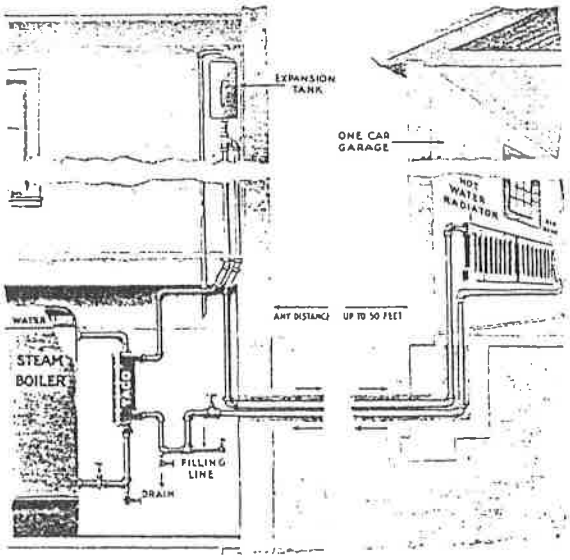


Fig. H-8

Detached Garage Heating

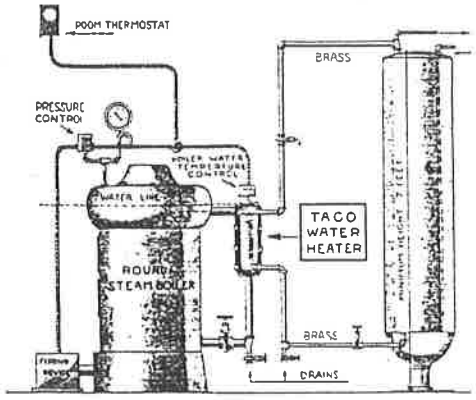


Fig. H-9

Year Round Domestic Hot Water Supply with Oil-Fired Boiler