

First Co.

HWC

Hot Water Cased Duct Coil

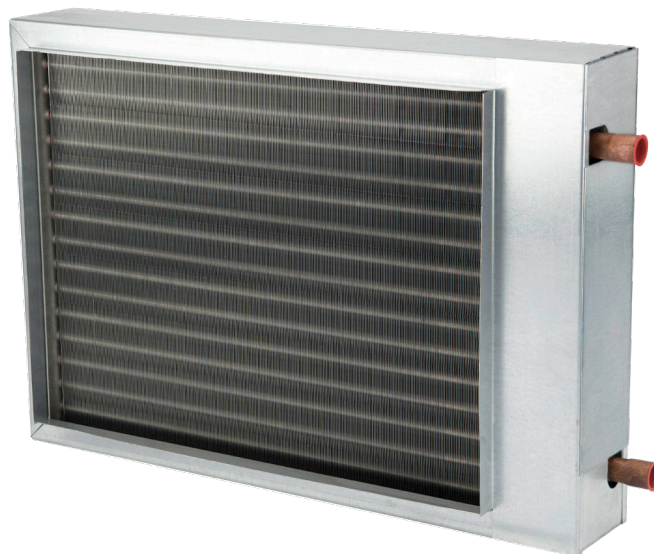
Horizontal/Vertical

Available in 3 sizes

Add-On Hot Water

Cased Duct Coil

AquaTherm[®]
by First Co.



NSF/ANSI
169:2016

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HWC SERIES

HOT WATER CASED DUCT COIL

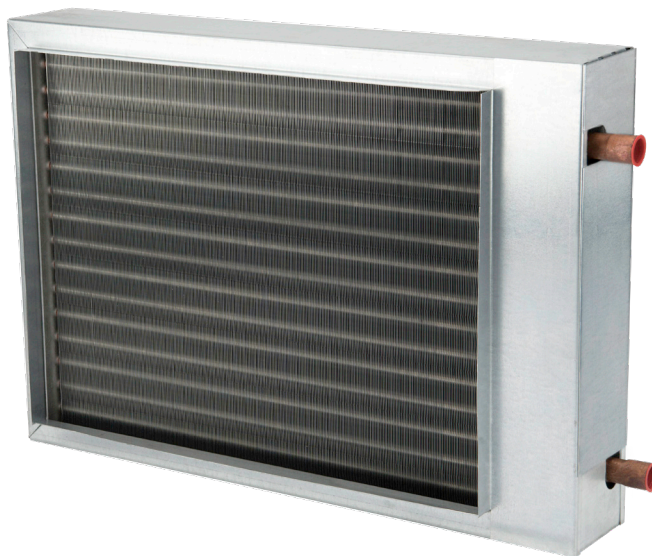
FEATURES

The HWC series duct coil is ideal for adding hot water space heating to either existing or new installations.

These coils can be matched with residential gas or oil-fired water heaters (called the Aqua Therm System). These fan coils are compatible with any source of hot water that doesn't exceed 180°F and is NSF/ANSI certified for use with domestic water.

Air circulation must be provided by an external source, such as an existing air handler.

- Galvanized steel cabinet
- Completely insulated cabinet
- High capacity copper tube / aluminum fin coil
- 7/8" duct flanges for supply and return connections
- Manual air vent for air purging
- Expanded piping connections accept 3/4" nominal (I.D.), 7/8" O.D. tubing
- Optional "Flow Control Module" can be mounted at the water heater for easier service



HWC Model

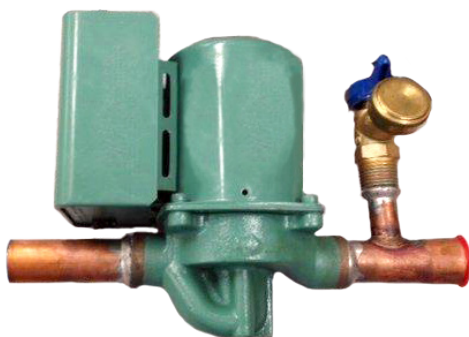
FIELD INSTALLED ACCESSORIES:

"Flow Control Module" - consists of a circulating pump, pump relay, check valve to eliminate "thermo-syphoning", 6 foot plug-in line cord, and large air purge valve. This module is required when coils are piped to water heaters (Aqua Therm System) or any other hot water source not having a circulating pump.

#940-3 CV = 3 GPM Flow Rate

#940-2 CV = 7 GPM Flow Rate

#941-1 Freeze Protector - attaches to coil piping and is wired between "R" and "W". This switch energizes the circulator pump if the coil temperature falls below 38°F to keep the coil from freezing. The freeze protector is required when the coil is installed in areas subjected to freezing temperatures.

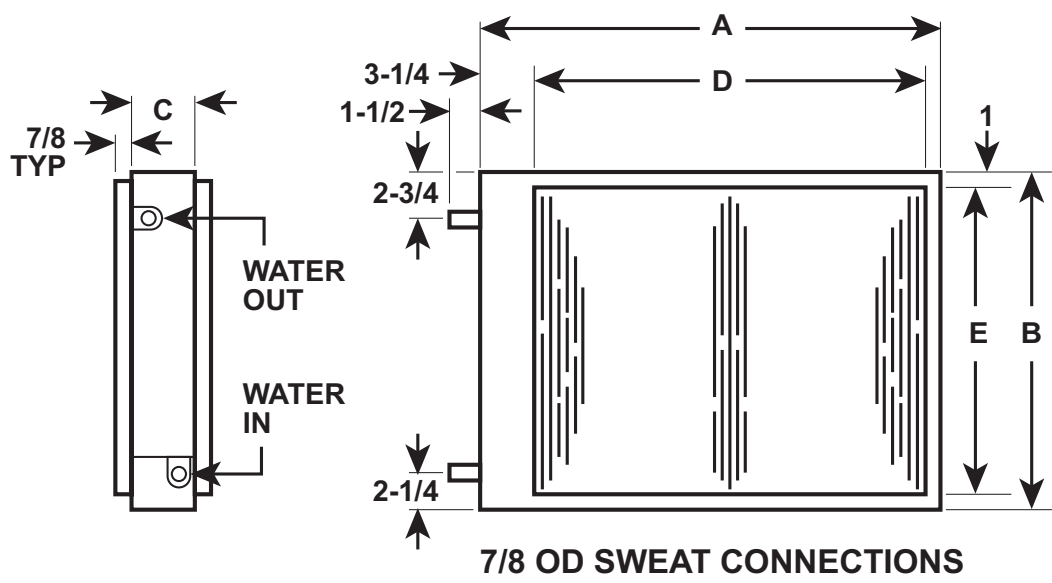


Flow Control Module

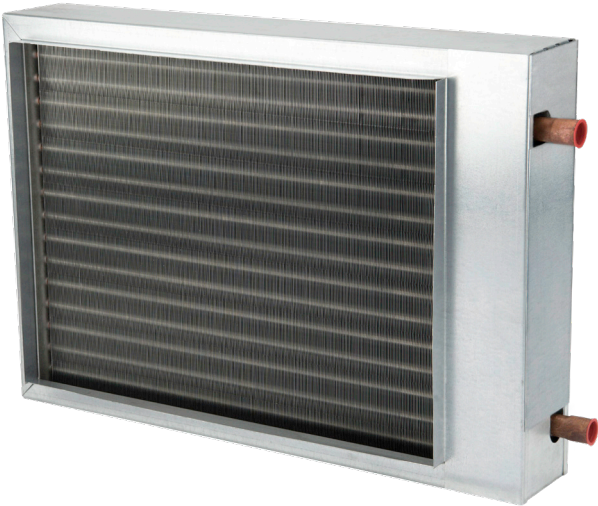
HWC SERIES

HOT WATER CASED DUCT COIL

DIMENSIONS



HWC – PHYSICAL DIMENSIONS						
MODEL	FACE AREA	A	B	C	D	E
HWC1520	15 X 20	24-1/4	17	3-7/8	20	15
HWC2025	20 X 25	29-1/4	22	3-7/8	25	20
HWC2030	20 X 30	34-1/4	22	3-7/8	30	20



HWC Model

HWC SERIES

HOT WATER CASED DUCT COIL

TECHNICAL DATA

AIR FRICTION

HWC – AIR FRICTION LOSS								
MODEL	AIR FRICTION LOSS (INCHES WATER)							
	800 CFM	1000 CFM	1200 CFM	1400 CFM	1600 CFM	1800 CFM	2000 CFM	2200 CFM
HWC1520	0.13	0.19	0.26	---	---	---	---	---
HWC2025	---	---	---	0.14	0.18	0.22	---	---
HWC2030	---	---	---	---	---	0.16	0.19	0.22

PERFORMANCE DATA • 1520 • 2025 • 2030

HWC 1520 – DATA										
HWC1520	PERFORMANCE DATA									
GPM	PRESSURE DROP (FT. WTR.)	HEATING BTUH (1000) AT ENTERING WATER TEMPERATURE								
		120°F			140°F			180°F		
		800 CFM	1000 CFM	1200 CFM	800 CFM	1000 CFM	1200 CFM	800 CFM	1000 CFM	1200 CFM
3	1.2	24.2	27.4	30.1	33.8	38.3	42.2	53.1	60.2	66.3
5	3.4	26.4	30.4	33.8	36.9	42.5	47.3	58.0	66.8	74.3
7	6.7	27.6	31.9	35.7	38.6	44.7	50.0	60.6	70.2	78.6
9	11.0	28.2	32.7	36.8	39.5	45.8	51.5	62.0	72.0	81.0

HWC 2025 – DATA										
HWC2025	PERFORMANCE DATA									
GPM	PRESSURE DROP (FT. WTR.)	HEATING BTUH (1000) AT ENTERING WATER TEMPERATURE								
		120°F			140°F			180°F		
		1400 CFM	1600 CFM	1800 CFM	1400 CFM	1600 CFM	1800 CFM	1400 CFM	1600 CFM	1800 CFM
3	10.6	36.6	39.3	41.4	51.2	56.0	58.0	80.5	86.4	91.1
5	1.7	41.4	44.6	47.5	58.0	62.5	66.5	91.2	98.2	104.6
7	3.4	44.1	47.9	51.3	61.7	67.0	71.8	97.0	105.3	112.8
9	5.8	45.9	50.0	53.7	64.2	70.0	75.1	100.9	110.0	118.1

HWC 2030 – DATA										
HWC2030	PERFORMANCE DATA									
GPM	PRESSURE DROP (FT. WTR.)	HEATING BTUH (1000) AT ENTERING WATER TEMPERATURE								
		120°F			140°F			180°F		
		1800 CFM	2000 CFM	2200 CFM	1800 CFM	2000 CFM	2200 CFM	1800 CFM	2000 CFM	2200 CFM
3	0.75	43.6	45.7	47.3	61.0	64.0	66.2	95.9	100.6	104.0
5	2.2	50.4	53.2	55.7	70.6	74.5	78.0	110.9	117.1	122.6
7	4.4	54.2	57.8	60.8	75.9	80.9	85.2	119.3	127.1	133.9
9	7.5	56.7	60.7	64.1	79.4	84.9	89.8	124.8	133.4	141.0

NOTES:

- Heat BTUH is at 70°F entering air temperature.
- #940-3 CV - This flow control module will achieve BTUH capacities shown at 3 GPM.
#940-2 CV - This flow control module will achieve BTUH capacities shown at 7 GPM. When this module is used and the total distance between the coil and water heater exceeds 20 feet, the copper piping should be 1-1/8" O.D. For all other applications use 7/8" O.D. piping.
- Heating BTUH of coil will not exceed output of water heater.
- NOTE:** State of MA, .248 CMR Code of the state of MA requires a pump timer. (60 seconds every 6 hours)

Numbers in dark blue areas represent typical applications.



AMERICAN-MADE. FAMILY OWNED.



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