

Carbon Steel

Model	WFLH
Sizes	12", 16", 20", 24", 36"
Connections	150# RF
Body Material	Carbon Steel
PMO Max. Operating Pressure	150 PSIG
TMO Max. Operating Pressure	366°F
PMA Max. Allowable Pressure	150 PSIG @ 562°F

300 PSIG unit available.
Flash Tanks Supplied with ASME Section VIII Code Stamp.

Typical Applications

The WFLH Horizontal Flash Steam Recovery Vessels are installed in condensate return systems to separate flash steam from hot condensate and neutralize pressure in condensate return lines. The flash steam may be used for low pressure heating applications or vented to atmosphere. The low-profile of horizontal flash tanks make them ideal to allow gravity drainage when head space is limited and vertical tanks cannot be installed. ASME Code Stamped.

An internal drop leg is an optional outlet connection to allow discharge condensate to be drawn from the bottom of the tank where temperature will be cooler. The optional sparge pipe inlet connection is used to diffuse incoming condensate especially when used as preheating for applications such as boiler feed.

How to Size / Order

Use Table 1 to determine amount of Flash Steam that will be generated by the hot pressurized condensate. The percentage of Flash Steam formed is found where Condensate Pressure and Flash Tank Pressure intersect.

Multiply your Condensate Load by the decimal equivalent of the Flash Steam Percent to determine the amount of Flash Steam in lbs/hr.

Then use Figure 1 to determine Flash Tank required.

Example:
Condensate Pressure: 15 PSIG
Flash Tank Pressure: 0 PSIG
Condensate Load: 5,000 lbs/hr
% Flash Steam: 3.9% from chart

Decimal Equivalent % Flash Steam = .039

.039 x 5000 = 195 lbs/hr of flash steam

Therefore Choose: 12" Flash Tank WFLH-16-N

WFLH DIMENSIONS - inches				
Model	Size	A	B	C
WFLH-16-N	12"	20	8	3
WFLH-17-N	16"	20	8	4
WFLH-18-N	16"	27	12	4
WFLH-19-N	20"	31	16	6
WFLH-20-N	24"	32	16	6
WFLH-22-N	36"	Consult Factory		

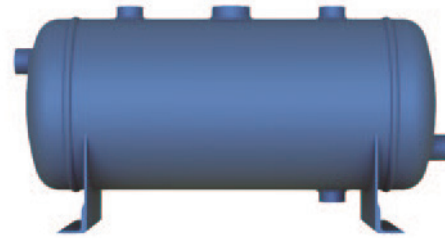
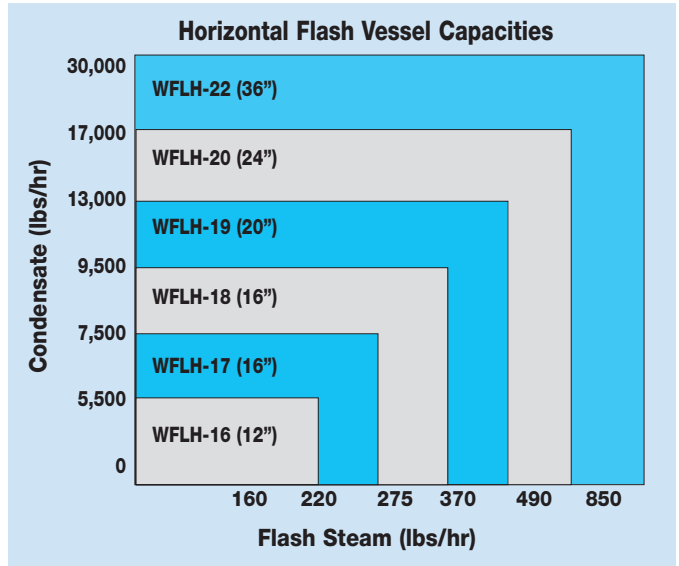
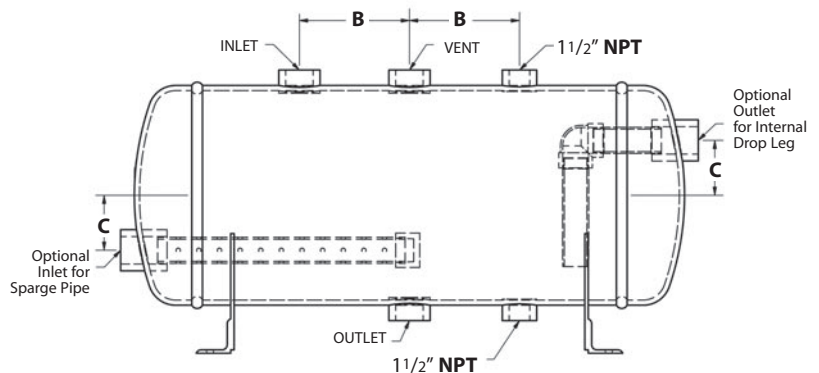


Figure 1:



WFLH DIMENSIONS (inches), CAPACITIES (lbs/hr)						
Tank Diameter	Length	Model Code	Vent Size	Inlet Size	Outlet Size	Volume Gallons
12"	40	WFLH-16-N	1 1/2	1 1/2	1 1/2	20
16"	40	WFLH-17-N	2	2	2	35
16"	54	WFLH-18-F150	2 1/2	2	2 1/2	45
20"	62	WFLH-19-F150	3	2	3	80
24"	64	WFLH-20-F150	4	3	4	120
36"	36	WFLH-22-F150	6	3	6	310



Note: All Watson McDaniel flash steam recovery vessels are supplied with ASME Section VIII Code Stamp.

PIPELINE ACCESSORIES