Pressure vessel

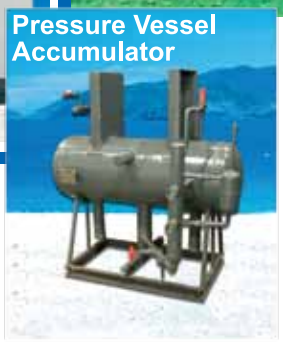
Accumulator

By itc

The Unique Pressure Vessel Accumulator

Package
Plate Heat Exchanger

Falling Film Packaged Unit



Pressure Vessel
Accumulator

ITC creates this phenomenal Pressure Vessel Accumulator, following the ASME Section VIII codes. We build it for storing both liquid and gas ammonia, and promoting the temperature regulation. Our engineers designed it to working tolerate the pressure of 16 Bars (g) ; and tested pressure endure 24 Bars (g). And also, although an optional liquid boil out coil vaporizer was designed working pressure 20 Bars (g), and this coil tested pressure 30 Bars (g).

In addition, suction gas equipment, safety valve and mist eliminator can relieve the pressure inside the vessel. While only allowing ammonia gas to pass through the compressor, these instruments also prevent the liquid from penetrating to the compressor.

ITC, therefore, would like to offer you this premium quality accumulator at very reasonable price.

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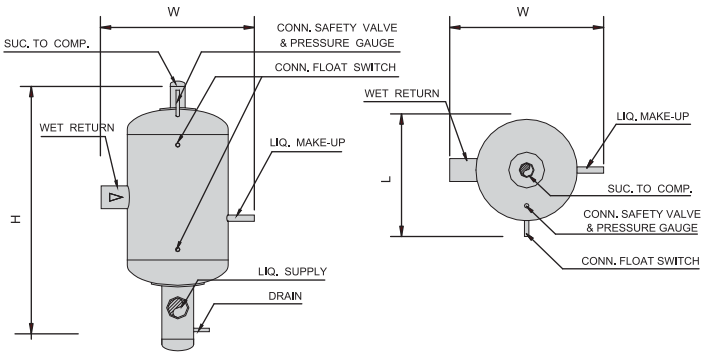
ITC's Accumulator Features:

1) Safety in operation is assured, as all vessel are manufactured accord ASME Section VIII Codes.
2) All external welding for seams are performed by automatic welding equipment.
3) A ***dry vessel*** is assured, as all water is removed during the hot air drying process.
4) Liquid boil out coil (Vaporizer) are provided if this option is purchased.
5) A mist eliminator (mesh pad) is installed as an optional inside the accumulator to ensure that the higher stage compressors are protected from "slugs" of liquid refrigerant or oil.
6) The suction gas is desuperheated to within 5.5 K of saturated suction temperature where this option is purchased.

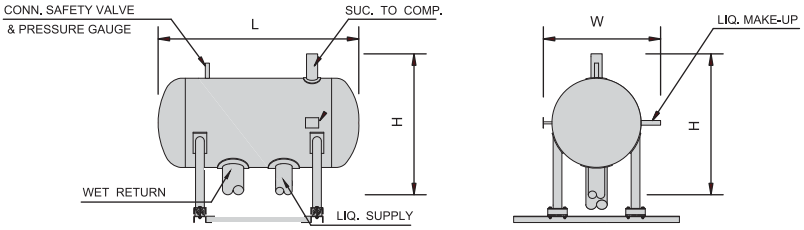
Specification - Standard unit:

1) Shell - ASTM-A516 Grade 70 welded rolled steel plate.
2) Heads - elliptcal, welded to shell.
3) Connections (nozzles) - safety valve and 3000# couplings, all others Schedule 40 and Schedule 80, ASTM A106 or A53 pipe stubs with 150 mm. extension.
4) Design pressure - 16 Bar(g)
5) Test pressure - 24 Bar(g)
6) Liquid Boil out coil - Design pressure are 20.6 Bar(g) Test pressure - 31 Bar(g)
7) Finish - Two (2) coat of rust preventive paint is applied.



Vertical Accumulator

Model	-5 °C Evap. Temp. (kWr)	-10 °C Evap. Temp. (kWr)	-15 °C Evap. Temp. (kWr)	-30 °C Evap. Temp. (kWr)	-40 °C Evap. Temp. (kWr)	Dimension (mm)			Operating Wt. kg
						Length	Width	Height	
ACCV-1	135.7	127.3	110.8	76.0	49.2	610	610	1,830	220
ACCV-2	216.3	200.4	175.8	111.1	84.4	710	710	2,440	385
ACCV-3	339.3	312.9	272.5	189.9	123.1	810	810	2,440	510
ACCV-4	508.1	460.6	413.2	291.9	193.4	915	915	2,440	670
ACCV-5	782.4	713.8	632.9	425.5	298.9	1,070	1,070	3,050	1,100
ACCV-6	1,144.5	1,044.3	914.2	632.9	422.0	1,220	1,220	3,050	1,800
ACCV-7	1,577.1	1,381.9	1,213.1	872.0	597.8	1,370	1,370	3,050	2,140
ACCV-8	2,067.6	1,867.1	1,635.1	1,149.8	773.6	1,530	1,530	3,050	2,600
ACCV-9	2,709.3	2,450.8	2,153.7	1,403.0	1,019.7	1,680	1,680	3,360	3,360



Horizontal Accumulator

Model	-5 °C Evap. Temp. (kWr)	-10 °C Evap. Temp. (kWr)	-15 °C Evap. Temp. (kWr)	-30 °C Evap. Temp. (kWr)	-40 °C Evap. Temp. (kWr)	Dimension (mm)			Operating Wt. kg
						Length	Width	Height	
ACCH-1	94.5	77.0	68.1	36.3	22.0	1,525	460	460	205
ACCH-2	149.7	125.9	108.1	60.9	40.5	2,135	560	560	300
ACCH-3	270.9	229.4	199.1	116.1	76.3	2,135	660	660	450
ACCH-4	418.6	354.6	302.5	166.3	113.2	2,135	765	765	625
ACCH-5	660.2	559.2	485.0	271.1	180.1	3,050	920	920	1,100
ACCH-6	948.1	803.1	699.0	404.1	270.7	3,050	1,070	1,070	1,800
ACCH-7	1,287.1	1,090.2	948.9	533.3	347.2	3,050	1,220	1,220	2,140
ACCH-8	1,690.1	1,431.6	1,246.1	696.6	453.5	3,050	1,380	1,380	2,600
ACCH-9	2,215.0	1,879.0	1,641.0	850.0	600.0	3,360	1,530	1,530	3,360

Note : 1.) Other capacity and dimension are available. Please contact the manufacturer.
2.) Add 15% to the above capacity rating if the liquid make up temp. is 0 °C or below.
3.) Specifications are subjected to change without notice.