

Pressure Vessel

Liquid Receiver By 

Here Comes

the Liquid Ammonia Reservoir..



Evaporative Condenser



Low Pressure Vessel



Compressor

The ITC's Pressure Vessel Liquid Receiver model "HPRH" following the guidelines of ASME section VIII Division 1 is a specialized liquid ammonia reservoir which can handle high pressure liquid.

A fabricated A516-Gr70 steel sheet (ASTM standard) passing through the process of submerged arc welding along the body's and head's seams can ensure its durability. This also can prevent the liquid ammonia from leaking out. The reservoir always set the hydrostatic pressure in the internal structure to be at 31 bars (g).

In addition, we can balance the system's pressure by having 30% of liquid ammonia and 70% of free space where the liquid ammonia will change to gas state; this space will be extremely important when the gas is dramatically expand. However, when used for storage, it can sum up to 85% of liquid ammonia, which only allows 15% of free spaces for liquid to expand.

Moreover, the standard accessories include the liquid level glass and dual safety relief valve purge at 20.7 bars (g) which can alleviate the excessive pressure.

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Pressure Vessel

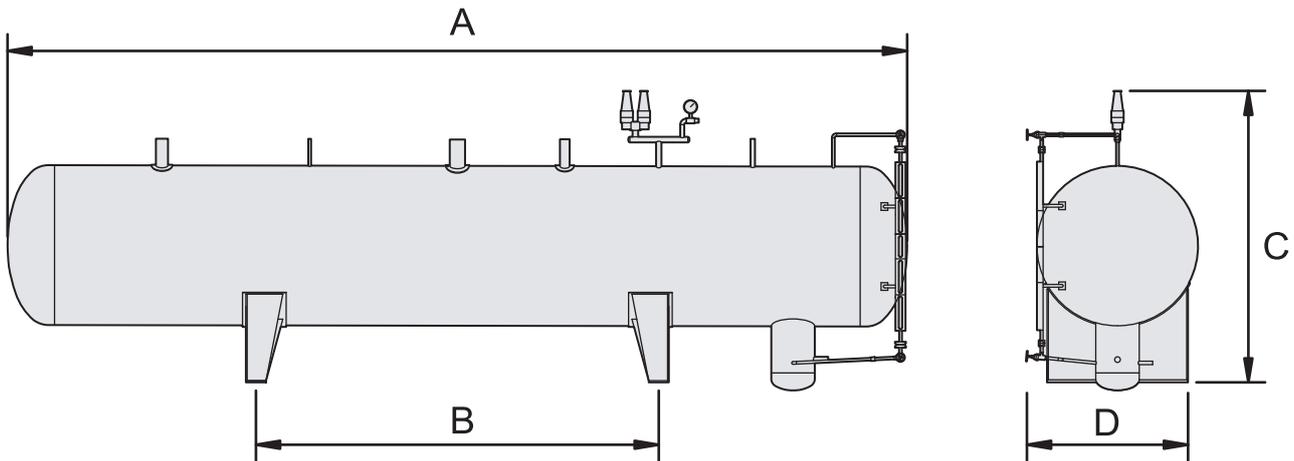
Liquid Receiver



HPRH

High Pressure Liquid receiver designed by ITC follows the ASME section VIII Division 1 requirements. All models are fabricated from A516-Gr70 Steel sheet (ASTM standard), and run through a submerged arc welding process along its body and head. Also, we have tested it at 31 Bars (g) by hydrostatic. Standard accessories include dual safety relief valve purge at 20.7 Bars (g) and liquid level glass. Optional liquid indicators are also available e.g. flip flap type level control and electrode type liquid level transducer.

ถังพักน้ำยาเหลวความดันสูงออกแบบและผลิตโดย ไอ.ที.ซี. ตามข้อกำหนด ASME Section VIII Division 1 ตัวถังทำจากเหล็กแผ่น A516-Gr70 (มาตรฐาน ASTM) เชื่อมตะเข็บตลอดตัวถังและหัวถังด้วยกรรมวิธีอาร์คไฟฟ้าใต้ฟลักซ์ ผ่านการทดสอบความดันด้วยน้ำ ที่ 31 บาร์เกจ มีวาล์วระบายความดัน ชนิดคู่ทำงานที่ 20.7 บาร์เกจ และแท่งแก้วระดับน้ำยาเป็นอุปกรณ์มาตรฐาน ตัวเลือกอื่น เช่น ชุดแถบสีแสดงระดับน้ำยา, ทรานส์ดิวเซอร์วัดระดับ



High Pressure Liquid Receiver

Model	HPRH1	HPRH2	HPRH3	HPRH4	HPRH5	HPRH6	HPRH7	HPRH8	HPRH9	HPRH10	HPRH11	HPRH12
"A" Length (mm)	3,854	4,006	5,806	4,082	5,282	6,482	5,058	6,558	6,634	6,710	6,786	6,862
"B" Leg Width (mm)	2,400	2,400	3,000	2,400	2,400	3,000	2,400	3,000	3,000	3,000	3,000	3,000
"C" Total Height (mm)	1,388	1,490	1,490	1,642	1,642	1,642	1,795	1,795	1,947	2,100	2,252	2,404
"D" Width (mm)	600	700	700	800	800	800	800	950	1,000	1,250	1,400	1,550
Appx. Shipping Weight (kg)	500	800	1,100	950	1,100	1,400	1,850	2,350	3,200	3,700	4,300	4,750
Appx. Operating Weight (kg)	970	1,500	1,200	2,100	2,500	3,200	4,650	5,200	6,700	8,000	10,100	11,600

Suitable for Ammonia Refrigerant Plant Capacity (kW_r)

Ice making -10°C	193	281	422	457	598	738	791	1,055	1,424	1,864	2,356	2,920
Cold Storage -30°C	210	334	492	527	686	844	914	1,230	1,653	2,180	2,743	3,376
Blast Freezer -40°C	123	176	264	281	352	439	492	633	879	1,143	1,442	1,779

Note : 1.) Other capacity and dimension are available. Please contact manufacturer.
2.) Specifications subject to change without notice.

