

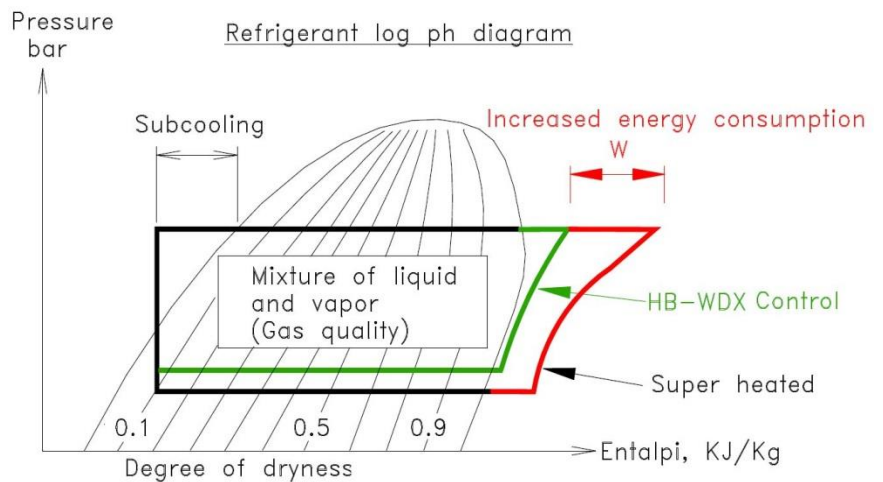


Reduced charge & ammonia DX control

A newly developed sensor by HB Products makes it possible to perform a direct measurement of the gas quality in a two-phase ammonia flow. It is designed to be mounted in the suction line and offers precise online reading of the content of liquid in gas without any time delay.

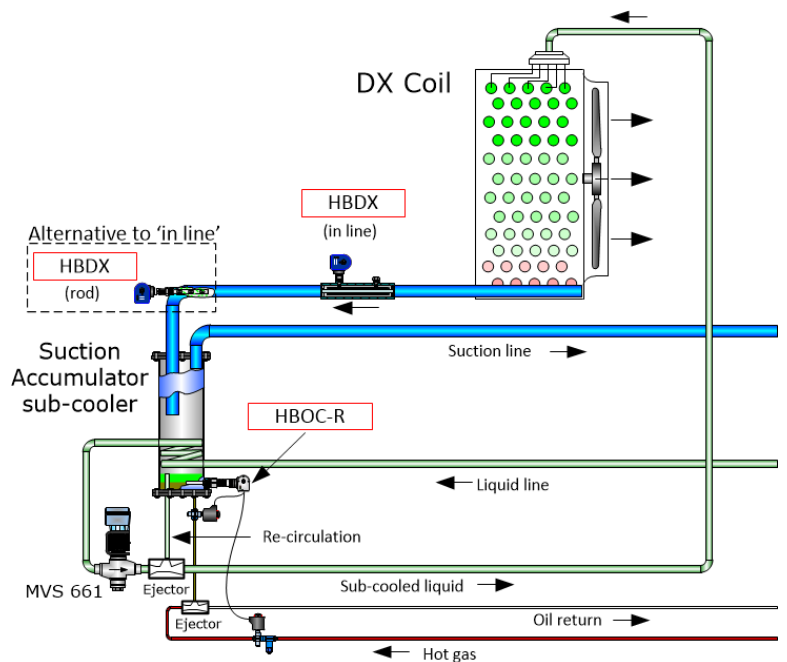
By being able to measure and control the gas quality it will also be possible to construct low charge ammonia DX systems and decrease or even eliminate superheat.

The sensor is at current available for OEMs



Key advantages:

- reduced refrigerant charge
- increased efficiency and reduced energy consumption
- suitable for any suction line dimension
- instant reading without temperature and pressure measurements
- no impact from water in ammonia
- no pressure drop



Air cooler with HBDX sensors



In-line type



Products

WE INCREASE
UPTIME AND EFFICIENCY
IN THE REFRIGERATION INDUSTRY



First systems have already been designed both in Europe and in the US; some of which have already been put into operation.

Parallel to field tests dating more than a year back also the Danish Technology Institute (DTI) has been involved in laboratory tests.

Technical specifications

- Supply: 24 V DC \pm 10%
- Suitable for ammonia (and HFC's)
- Signal output: 4-20 mA
- Refrigerant temperature: -50...+100°C
- Max. operational pressure: 100 bar
- Connection: in-line 1½" -4" / rod-style ¾" and 1"



Siemens MVS

HB recommends the use of the Siemens MVS661 modulating valve since it has a reaction time of less than 1 second and is forced closed when it is without power, both very important parameters for DX control.

For further information please contact

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Rod-style type

HB Products – dedicated to optimal solutions for level measurement and control

HB Products is a development-oriented Danish company, which specializes in the development and production of sensors for industrial refrigeration systems.

Apart from expertise within oil and refrigerant control, we have great know-how in the design and optimization of industrial refrigeration systems. This knowledge enables us to develop and produce the best sensors!

Since its start more than 20 years ago, HB Products has attained a strong global position. This is the result of our ability to think in terms of new technological solutions, create trustworthy products, and provide a high level of service.



www.hbproducts.dk