



Newsletter July 2019

Dear Customer, Distributor and Partner,

Take part in the Climate Challenge – Together we can design Eco friendly solutions when using naturel refrigerant with increased energy efficiency, simple system design, lower refrigerant charge and increased safety with all types of refrigeration and heat-pump systems.

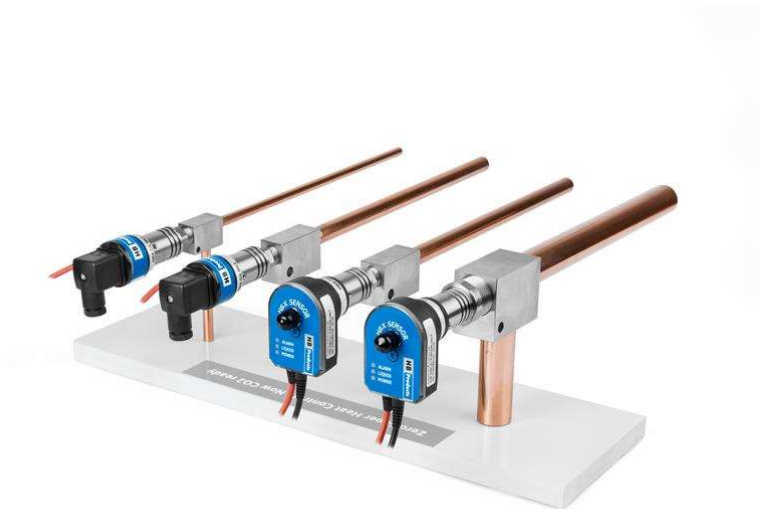


The climate change has become central in the political debate all over the world. There is a growing pressure on the companies to save energy and lower CO₂ emissions. You are probably already trying to find initiatives to lower your energy consumption and comply with the stricter energy requirements in the refrigeration and heat-pump industry? Let HB Product help you. With our revolutionary new patented sensors, we can optimize your heat-pump and refrigeration system with lower energy consumption up to 20-40 %.





Stunning interest in the Vapor Quality HBX-DX-CU, CO2 Sensor in the Market



After launching at ChillVenta 2018, we have been busy delivering test sensors to universities and big players in the market and the first evaporator at a retailer distribution center in Stavanger (Norway) has started up successfully. The plant consists of totally 14pcs CO2 DX evaporators of 75 & 56kW, 12 pcs HBX-DX-CU-1 1/8" and 2 pcs 7/8" and the HBX-VQ sensor directly controls the Danfoss ICM / ICAD expansion valve. The customer is extremely satisfied and can clearly see that one evaporator is more efficient and provides more, with low Super-Heat below 2 degrees Kelvin (2,0 K) without liquid in the suction line.

HBX Strainers delivered to large Project in Belgium

We have supplied 6 large HBX-OVC / DX-ST-DN150 VQ sensors for monitoring and controlling large Ammonia spiral freezers in Belgium.

Improvement of 45 % in SEPR Value with HBX-ST-DN50 in Germany

Sensational test in Germany on a 100 KW Low Charge Ammonia heat pump has shown test results with an improvement of the SEPR

from 5,62 to 8,2 \approx 45 %. The test takes place at Fisher Kälte in Stuttgart, performed by Oliver Kacic (Bachelor / Master thesis by Oliver Kacic Karlsruhe University).

This July 2019 edition of the HB Products newsletter includes numerous product news.

Product NEWS and updates

HBSR2 & HBSR2-L – Available with ½" NPT and ½" BSPP Thread



Our series of HBSR ammonia switches is now available with ½" thread NPT and ½" BSPP thread. This has been a demand from numerous customers for a long time.

HBSR2 & HBSR2-L – Now available with Union and longer Mechanical Part



New generation HBSR 2 switches introduced. Optimized for use in low temperature application. The switches are fitted with a waterproof union, which makes it easier to connect / disconnect the electronic part from the mechanical part

without tools.

Mechanically, it is longer to ensure a better measurement in long welding joints. The risk of welding the threaded welding joint with a wrong slope/angle is minimized since the measuring probe is longer (HBSR2-L).

New complete series of HBX Strainers DN20-DN200



HB Products now present a complete series of HBX strainers in sizes from DN20-DN200. The integration of the HBX sensor in strainers / filter houses mounted at the suction line ensures a proper functionality and correct installation of the HBX sensor.

Further the filter lid and sensor element can be removed and cleaned if

necessary. Standard strainer versions are made of carbon steel, but selected types are also available in stainless steel.

Expanded Product Range – HBPS Pressure Sensor



We have expanded the product range of HBPS Pressure Sensors to include 9, 40 and 100 bar versions.

New ATEX Series – Standard Products without Display



HB Products can proudly present our standard product series with EX, ATEX approval. The standard products with ATEX include the product types without display within the product

range: HBSR, HBSC2, HBLC, HBLT, HBX, HBCP, HBAC, HBLS & HBSO. These sensors fulfill the Directive on equipment and protective systems for use in potentially explosive atmospheres (Directive 2014/34/EU) (ATEX). This enables the use of the sensors with flammable refrigerants and in many new applications such as marine & offshore, oil & gas /petrochemical industry.

New Heat Pump Product Series – Level Sensor HBLT-A3



The new HBLT-A3 level sensor offers the same functionality as the old types HBLT-A1 & HBLT-A2 but has got external temperature compensation for improving the efficiency in heat pump applications. The sensor has to be mounted in a standpipe

with a temperature sensor mounted outside the standpipe. This product is the first in a new series of products special designed for heat pumps.

New Solution for measuring ice thickness in Ice Banks

HB Products has made test results with a special version of the HBDF-MK2 sensor which has shown that the sensor is now able to measure ice thickness in ice banks. The measurement of ice buildup

on the evaporator tubes prevents the formation of ice block and thereby a better functionality in the thermal ice bank.

New Series of Level Probes in mini format with 1/4 " Thread



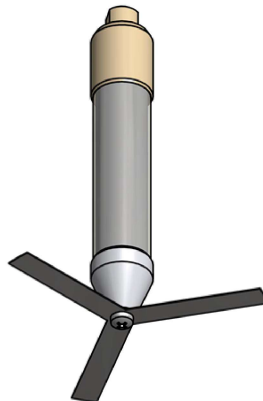
For level measurement in very small containers, HB Products introduces a new slimline product range of level probes with 1/4" thread.

HBLT-WIRE – Measurement in Water and conductive Liquids



Our new generation of the HBLT-WIRE sensor can in addition to NH3 and HFC/HFO be used for level measuring in water and other conductive liquids which opens up for the use of the HBLT-WIRE sensor in applications beyond the refrigeration industry.

HBLT-WIRE - Counterweight with adjustable center position spring



Under turbulent conditions, the counterweight for the HBLT-WIRE can be supplied as a spare part with an adjustable center position spring. The center position spring is delivered with cutting marks so it can be adapted and cut to the dimension of the stand pipe.

HBLT-FLEX – A longer and lighter Version introduced

The very flexible HBLT-FLEX sensor for level measurement in HFC/HFO & CO2 is now available in lengths up to 2000 mm and the weights are now made of aluminum



instead of steel to minimize weight.

**See you at ATMOSphere Europe, 16-17/10/2019
– Warsaw, Poland**



With best regards
The HB Products Team

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