Filter Driers and Components

Filter Driers Design Features and Specifications

NDL filter driers are built to withstand pressures up to 653 PSI (45 Bar), delivering dependable performance in high pressure refrigeration systems. They are fully compatible with A1, A2, A2L, and A3 refrigerant classifications, making them suitable for both current and next generation refrigerants. Available in sizes from 1/4 inch to 1 1/8 inch, these filter driers support both ODF and SAE connection types for flexible system design and installation. They are compatible with CFC, HCFC, HFO, and HC refrigerants, as well as mineral oil, POE, and PVE lubricants. Our filter driers hold these certifications and approvals: *CE; CRN-approved; UL-certified*.

Solid Core Liquid Line (NCH)

Features polyester fabric that effectively traps small particles and copper chards, while its high moisture absorption capacity ensures optimal performance. The solid core is made with XH-11 grade molecular sieves, offering efficient moisture control. The blend consists of 80% molecular sieves and 20% activated alumina. Press Compatible Options Available.

Beaded Core Liquid Line (NMH)

Offers superior contamination control, moisture adsorption, and acid formation prevention. It features glass wool and polyester fabric to trap small particles and copper chards, providing filtration at both the inlet and outlet. The core is composed of desiccant beads, ensuring effective moisture removal. The blend combines 70% molecular sieves and 30% activated alumina.

Solid Core Bi-Flow (NCHBF)

Designed for use on the liquid line in reversible refrigeration heat pump applications. It utilizes a blend of glass wool and polyester fabric to trap small particles and copper chards. The solid core features XH-11 grade molecular sieves, with the blend combining 80% molecular sieves with 20% activated alumina. Press Compatible options available.

Solid Core Suction Line (NCHSF)

Installed on the suction line to provide extra protection for the system. It safeguards the compressor from moisture, solid dirt, rust, scale, and water, while effectively retaining contaminant particles. The dual-access valves allow for easy pressure reading, enhancing convenience. The solid core is composed of a desiccant blend of 80% molecular sieves and 20% activated alumina.

Filter Driers and Components

Press Compatible Filter Driers Design Features and Specifications

Engineered for Reliability: Press-Fit Solutions That Simplify Your Workflow

Eliminates the need for brazing, reducing fire hazards and removing the need for nitrogen purging and flammable gas transport. Installation can be done with the system running, minimizing downtime and disruption while being 60% faster than brazing. Filter Driers are compatible with Press/Push fittings for easy, quick, and flame-free connections. Perfect for Residential AC, HP, Mini-split, and Refrigeration installations, enhancing safety and efficiency as the use of flammable refrigerants rises. We currently offer press compatible options for our solid core liquid line and solid core bi-flow filter driers in 3/8" sizes (NCH-083-Z, NCH-163-Z, NCHBF-083-Z, NCHBF-163-Z)

Components Design Features and Specifications

Replaceable Core Shells (NRC)

Made of durable steel, ensuring a longer lifespan for reliable performance. Core holders are designed to automatically and immediately center the filter shells, optimizing functionality. Available in sizes ranging from 5/8" to 2-1/8", this product offers versatility for various applications. It also features ODF connection types, making it compatible with a wide range of systems.

Standard Moisture Capacity Core (NA-48)

Moisture and acid removal core for liquid and suction lines with fluorinated refrigerants. 80% molecular sieve + 20% activated alumina ensures high moisture adsorption and acid protection.

Burn Out Clean Up Core (NB-48)

This product features a burnout high acid and standard moisture removal core, specifically designed for suction lines using fluorinated refrigerants. The blend consists of 48% molecular sieve + 47% activated alumina + 5% carbon.

High Moisture Capacity Core (NC-48)

High moisture removal core suitable for liquid and suction lines using fluorinated refrigerants. This core is optimized for maximum moisture adsorption with reduced acid removal.