



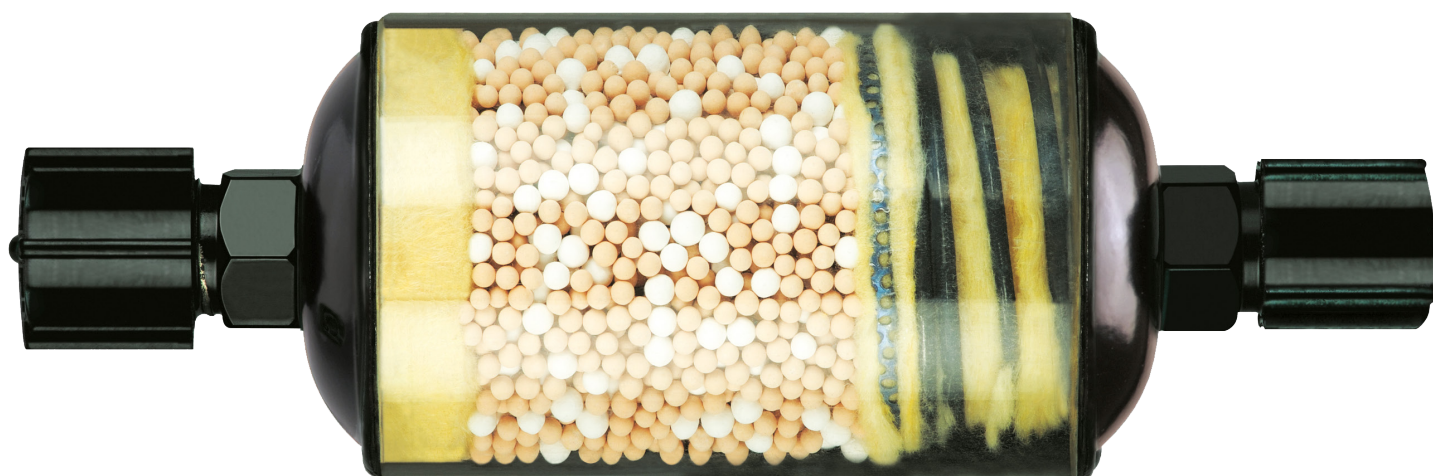
NDL Industries

APPLICATIONS

Commercial, Industrial, and Residential HVAC and Refrigeration

Beaded Core Liquid Line Filter Driers (NMH)

Filter driers shield the refrigeration system by trapping solids, absorbing moisture and acid, and averting ice buildup on the expansion valve's orifice.



NMH Specifications

Advancing Welding Technology

Body design manufactured with advanced welding technology for leak-free joints and superior performance with high-pressure refrigerants.

Tested Powder Coat

Finished with semi-gloss black epoxy-polyester powder coat paint tested to 1,000 hours of salt spray, exceeding ASTM standards.

Effective Blend

Desiccant comprised of molecular sieve and activated alumina in a ratio of 70:30.

Threaded Fittings

Strong and rust-free furnace-brazed threaded fittings.

Wide Range Compatibility

This product is recommended for refrigeration, freezing, air-conditioning systems, and mobile refrigeration due to its versatility and superior performance.

Enhanced Design

Furnace brazed pure copper ends, boasting both longer length and thicker walls when juxtaposed with other brands' offerings.

Pressure Drop Minimization

Uses honey-comb design perforated plate to minimize pressure drops.

High-Grade Sieves

Solid core type with XH-11 grade molecular sieves.



Beaded Core Liquid Line Filter Driers

Selection Recommendations

| MODEL | CONNECTIONS INLET/OUTLET | FLOW CAPACITY TAN @ 1PSI ΔP (FOR KW MULTIPLY TON BY 3.5) | | | | WATER CAPACITY DROPS OF WATER | | | | | | | | | |
|-------------|-----------------------------|-------------------------------------------------------------|------------------|--------|-------------------|-------------------------------|---------|--------|---------|--------|---------|--------|---------|----------------|---------|
| | | R-134A | R-22 & R-410A | R-407C | R-410A & R-507 | R-134A | | R-22 | | R-407C | | R-410A | | R-404A & R-507 | |
| | | | | | | 75 ° F | 125 ° F | 75 ° F | 125 ° F | 75 ° F | 125 ° F | 75 ° F | 125 ° F | 75 ° F | 125 ° F |
| NMH-032F | 1/4" SAE | 2 | 2.2 | 2.1 | 1.4 | 41 | 39 | 40 | 35 | 34 | 26 | 22 | 20 | 40 | 39 |
| NMH-032S | 1/4" ODF | 2.7 | 2.9 | | 2 | | | | | | | | | | |
| NMH-033F | 3/8" SAE | 3 | 3.3 | 3.2 | 2.2 | | | | | | | | | | |
| NMH-033S | 3/8" ODF | | | | | | | | | | | | | | |
| NMH-052F | 1/4" SAE | 2.5 | 2.4 | 2.5 | 1.8 | 121 | 110 | 116 | 99 | 100 | 80 | 66 | 61 | 123 | 110 |
| NMH-052S | 1/4" ODF | 3.5 | 3.6 | 3.5 | 2.5 | | | | | | | | | | |
| NMH-053F | 3/8" SAE | 3.5 | 3.8 | | 2.5 | | | | | | | | | | |
| NMH-053S | 3/8" ODF | 4.6 | 4.8 | 4.8 | 3.5 | 265 | 245 | 250 | 225 | 205 | 165 | 170 | 130 | 275 | 260 |
| NMH-082F | 1/4" SAE | 2.4 | 2.6 | 2.5 | 1.9 | | | | | | | | | | |
| NMH-082S | 1/4" ODF | 3 | 3.5 | | 2.5 | | | | | | | | | | |
| NMH-083F | 3/8" SAE | 4 | 4.5 | | 3 | 384 | 348 | 375 | 320 | 312 | 246 | 212 | 194 | 359 | 348 |
| NMH-083S | 3/8" ODF | 4.5 | 4.9 | | 3.5 | | | | | | | | | | |
| NMH-084F | 1/2" SAE | 6.7 | 7.5 | 7 | 5 | | | | | | | | | | |
| NMH-084S | 1/2" ODF | 7.1 | 7.7 | 7.5 | | | | | | | | | | | |
| NMH-163F | 3/8" SAE | 4 | 4.2 | | 3 | 681 | 628 | 668 | 572 | 562 | 446 | 528 | 364 | 646 | 625 |
| NMH-163S | 3/8" ODF | 4.5 | 4.8 | 4.7 | 3.2 | | | | | | | | | | |
| NMH-164F | 1/2" SAE | 8.5 | 9.5 | 9.2 | 6.2 | | | | | | | | | | |
| NMH-164S | 1/2" ODF | | | 9 | | | | | | | | | | | |
| NMH-165F | 5/8" SAE | 9.7 | 10.5 | 10.3 | 7 | 2214 | 2072 | 2194 | 1905 | 1855 | 1496 | 1490 | 1140 | 2068 | 2072 |
| NMH-165S | 5/8" ODF | 10.1 | 10.9 | 10.7 | 7.3 | | | | | | | | | | |
| NMH-303F | 3/8" SAE | 4.5 | 4.8 | 4.6 | 3.5 | | | | | | | | | | |
| NMH-303S | 3/8" ODF | 6.4 | 6.8 | 6.7 | 4.8 | 962 | 877 | 934 | 797 | 784 | 623 | 733 | 477 | 897 | 872 |
| NMH-303 ORN | 3/8" O-Ring | 4.5 | 4.8 | 4.6 | 3.4 | | | | | | | | | | |
| NMH-304F | 1/2" SAE | 8.5 | 9 | 8.6 | 6 | | | | | | | | | | |
| NMH-304S | 1/2" ODF | 10.5 | 10.9 | 10.6 | 7.5 | 2214 | 2072 | 2194 | 1905 | 1855 | 1496 | 1490 | 1140 | 2068 | 2072 |
| NMH-305F | 5/8" SAE | 10.8 | 11.8 | 11.3 | 7.9 | | | | | | | | | | |
| NMH-305S | 5/8" ODF | | | | | | | | | | | | | | |
| NMH-306F | 3/4" SAE | 15 | 16.5 | 15.7 | 7.9 | 962 | 877 | 934 | 797 | 784 | 623 | 733 | 477 | 897 | 872 |
| NMH-306S | 3/4" ODF | | | | | | | | | | | | | | |
| NMH-307S | 7/8" ODF | 16.9 | 18.5 | 17.9 | 12.5 | | | | | | | | | | |
| NMH-309S | 1-1/8" ODF | 19.9 | 21.5 | 20.8 | 14.5 | 2214 | 2072 | 2194 | 1905 | 1855 | 1496 | 1490 | 1140 | 2068 | 2072 |
| NMH-414F | 1/2" SAE | 10.5 | 11.5 | | 7.6 | | | | | | | | | | |
| NMH-414S | 1/2" ODF | 10.9 | 11.8 | | 7.9 | | | | | | | | | | |
| NMH-415F | 5/8" SAE | 12.5 | 13.5 | 12.6 | 8.8 | 2214 | 2072 | 2194 | 1905 | 1855 | 1496 | 1490 | 1140 | 2068 | 2072 |
| NMH-415S | 5/8" ODF | 12.2 | 13.6 | 23 | 8 | | | | | | | | | | |
| NMH-417S | 7/8" ODF | 20.5 | 22.5 | 21.8 | 14.9 | | | | | | | | | | |
| NMH-419S | 1-1/8" ODF | 27.8 | 30.5 | 29.8 | 20.5 | 2214 | 2072 | 2194 | 1905 | 1855 | 1496 | 1490 | 1140 | 2068 | 2072 |
| NMH-757S | 7/8" ODF | 23.4 | 25.7 | 23.8 | 17.1 | | | | | | | | | | |
| NMH-759S | 1-1/8" ODF | 36.8 | 29.1 | 34.8 | 19.4 | | | | | | | | | | |



Beaded Core Liquid Line Filter Driers

Models Available

| MODEL | OUTER DIA. ØA | | BODY LENGTH B | | STOPPER TO STOPPER LENGTH C | | OVERALL LENGTH D | | CONNECTION TYPE (IN) | DRAWING NO. | | |
|-------------|------------------|-------|------------------|-------|--------------------------------|-----------|---------------------|-------|-------------------------|-------------|------------|-----------|
| | MM | IN | MM | IN | MM | IN | MM | IN | | | | |
| NMH-032F | Ø 42 | Ø 1.6 | 67 | 2.64 | - | - | 113 | 4.45 | 1/4" SAE | Drawing 1 | | |
| NMH-032S | | | | | 97 | 3.82 | 117 | 4.61 | 1/4" ODF | Drawing 7 | | |
| NMH-033F | | | | | - | - | 121 | 4.76 | 3/8" SAE | Drawing 1 | | |
| NMH-033S | | | | | 97 | 3.82 | 117 | 4.61 | 3/8" ODF | Drawing 2 | | |
| NMH-052F | Ø 63.5 | Ø 2.5 | 78 | 3.07 | - | - | 124 | 4.88 | 1/4" SAE | Drawing 3 | | |
| NMH-052S | | | | | 108 | 4.25 | 128 | 5.04 | 1/4" ODF | Drawing 4 | | |
| NMH-053F | | | | | - | - | 132 | 5.20 | 3/8" SAE | Drawing 3 | | |
| NMH-053S | | | | | 108 | 4.25 | 128 | 5.04 | 3/8" ODF | Drawing 4 | | |
| NMH-082F | | | 99 | 3.90 | - | - | - | - | 145 | 5.71 | 1/4" SAE | Drawing 3 |
| NMH-082S | | | | | | | 129 | 5.08 | 149 | 5.87 | 1/4" ODF | Drawing 4 |
| NMH-083F | | | | | | | - | - | 153 | 6.02 | 3/8" SAE | Drawing 3 |
| NMH-083S | | | | | | | 129 | 5.08 | 149 | 5.87 | 3/8" ODF | Drawing 4 |
| NMH-084F | | | 122 | 4.80 | - | - | - | - | 159 | 6.26 | 1/2" SAE | Drawing 3 |
| NMH-084S | | | | | | | 129 | 5.08 | 149 | 5.87 | 1/2" ODF | Drawing 4 |
| NMH-163F | | | | | | | - | - | 176 | 6.93 | 3/8" SAE | Drawing 3 |
| NMH-163S | | | | | | | 152 | 5.98 | 172 | 6.77 | 3/8" ODF | Drawing 4 |
| NMH-164F | | | 190 | 7.48 | - | - | - | - | 182 | 7.17 | 1/2" SAE | Drawing 3 |
| NMH-164S | | | | | | | 152 | 5.98 | 172 | 6.77 | 1/2" ODF | Drawing 4 |
| NMH-165F | | | | | | | - | - | 190 | 7.48 | 5/8" SAE | Drawing 3 |
| NMH-165S | | | | | | | 152 | 5.98 | 172 | 6.77 | 5/8" ODF | Drawing 4 |
| NMH-303F | Ø 76.2 | Ø 3 | 190 | 7.48 | - | - | 244 | 9.61 | 3/8" SAE | Drawing 3 | | |
| NMH-303S | | | | | 220 | 8.66 | 240 | 9.45 | 3/8" ODF | Drawing 4 | | |
| NMH-303 ORN | | | | | - | - | 244 | 9.61 | 3/8" O-Ring | Drawing 5 | | |
| NMH-304F | | | | | - | - | 244 | 9.61 | 1/2" SAE | Drawing 3 | | |
| NMH-304S | | | | | 220 | 8.66 | 240 | 9.45 | 1/2" ODF | Drawing 4 | | |
| NMH-305F | | | | | - | - | 258 | 10.16 | 5/8" SAE | Drawing 3 | | |
| NMH-305S | | | | | 220 | 8.66 | 240 | 9.45 | 5/8" ODF | Drawing 4 | | |
| NMH-306F | | | | | - | - | 264 | 10.39 | 3/4" SAE | Drawing 3 | | |
| NMH-306S | | | | | 220 | 8.66 | 240 | 9.45 | 3/4" ODF | Drawing 4 | | |
| NMH-307S | | | | | 220 | 8.66 | 264 | 10.39 | 7/8" ODF | Drawing 6 | | |
| NMH-309S | 220 | 8.66 | 274 | 10.79 | 1-1/8" ODF | Drawing 6 | | | | | | |
| NMH-414F | Ø 88.9 | Ø 3.5 | 198 | 7.79 | - | - | 258 | 10.16 | 1/2" SAE | Drawing 3 | | |
| NMH-414S | | | | | 228 | 8.98 | 248 | 9.76 | 1/2" ODF | Drawing 4 | | |
| NMH-415F | | | | | - | - | 266 | 10.47 | 5/8" SAE | Drawing 3 | | |
| NMH-415S | | | | | 228 | 8.98 | 248 | 9.76 | 5/8" ODF | Drawing 4 | | |
| NMH-417S | | | | | 228 | 8.98 | 272 | 10.71 | 7/8" ODF | Drawing 6 | | |
| NMH-419S | | | | | 228 | 8.98 | 282 | 11.10 | 1-1/8" ODF | Drawing 6 | | |
| NMH-757S | | | 319 | 12.55 | - | - | 350 | 13.77 | 381 | 15 | 7/8" ODF | Drawing 6 |
| NMH-759S | | | | | | | 350 | 13.77 | 381 | 15 | 1-1/8" ODF | Drawing 6 |



Beaded Core Liquid Line Filter Driers

NMH Certifications and Approvals

- CE
- UL Certified



TW Filter Driers with Spectroline AR-GLO®

The complete solution to reduce warranty repair costs and reduce service callbacks.

- The included dye is compatible with all refrigerants, offering comprehensive protection for 6-ton* air conditioning systems
- Installation can be done with the system running, minimizing downtime and disruption
- With the tracer wafer pre-installed, there's no need to handle messy liquid dyes, simplifying the process
- Leaks are easily spotted using a UV flashlight and fluorescence-enhancing safety glasses, streamlining repair efforts

DIMENSIONAL DATA

| | | | |
|-------------|-------------|-------------|-------------|
| | | | |
| DRAWING - 1 | DRAWING - 2 | DRAWING - 3 | |
| | | | |
| DRAWING - 4 | DRAWING - 5 | DRAWING - 6 | DRAWING - 7 |