



Copper Filter Drier SM Series

Superior quality liquid line copper filter drier suitable for all refrigerants applications, design to protect the system and spare any pressure drop.



❖ TECHNICAL SPECIFICATIONS

Copper

Filter body entirely made in copper type Cu 99.9 DHP W024A Hard R290C manufactured by European sources. According to EN 12735-1, DIN 8905 F36, DIN 59753, ASTM B280, ASTM B743, ASTM B68

3Å Molecular Sieve

All our driers are equipped with TIHO Molecular Sieve, which manufacture desiccants with the highest features and widest compatibility available on the market.

In contrast to old XH-6 4Å [0.40 nm] the beads have pores with calibrated size 3Å [0.30 nm] ideal to absorb moisture molecules only [diameter ~2.75Å/0.275 nm] and do not block the larger refrigerant particles [diameter 3.30-4.20 nm], eliminating the risk to reduce the performances of the system and of the filter itself.

TH-9 HP suitable for: R12, R22, R124, R125, R134a, R1234yf, R1234ze, R143a, R152a, R290, R401, R404a, R507, R513a, R600, R600a etc. including their blends and corresponding oils.

TH-11 suitable for: R744, R32, R407c, R410a, R452a, R452b, R454b etc. including their blends and corresponding oils. According to DIN 8948 and DIN 8949.

Specification	TH-9 HP 8x12 Beads	TH-11 6x10 Beads
Particle Diameter (mm)	1.70-2.50	2.0-3.0
Bulk Density (kg/m3)	≥ 880	≥ 850
Crush Strength (N)	≥ 140	≥ 120
H2O Capacity (wt %)	≥ 19.5	≥ 16.5
Dry Attrition (wt %)	≤ 0.01	≤ 0.01
Water Content (wt %)	< 0.80	< 0.80



Standard Length - custom sizes available upon request											
OD 16 (mm)			OD 19 (mm)			OD 24 (mm)			OD 30 (mm)		
GR.	SM2 (L)	SM3 (L)	GR.	SM2 (L)	SM3 (L)	GR.	SM2 (L)	SM3 (L)	GR.	SM2 (L)	SM3 (L)
5	78	80	10	94	98	20	110	114	50	160	165
7	92	97	12	101	107	25	128	133	60	177	182
8	101	106	13	108	113	30	138	143	80	210	215
10	110	-	15	118	123	40	168	170	100	235	240
12	121	-	20	139	144	50	194	195	150	290	295

* Note: the dryer's length can change accordingly to connections Ø

Strainer Filter

Mechanical filtration element made with Woven Wire Mesh AISI 304L or AISI 316L to ensure tight filtration, superior strength and low percentage of carbon. Different mesh sizes available upon request: 133 µm, 79 µm, 49 µm, 32 µm. According to DIN 1.4306 and DIN 1.4404

Screen Filter

Made in Cold Rolled DC04 or Coppered Cold Rolled DC04 with wall thickness 0.40 mm to ensure high resistance and low percentage of carbon. According to EN 10130.

ODS Connections

All sizes available according to customer specifications. The connections are tapered to increase the wall thickness and the strength in one of the most critical part of the component. Ends protected with caps made in low density polypropylene to seal the internal surface from particles or moisture and increase the shelf life up to 3.5 years. Lokring compatible.

R744 Compatible

A special line of products dedicated to trans-critical and high-pressure applications with a bursting pressure of 623 bar [9035 psig].

Working Temperature

-40/ +80 °C [-40/ +176 °F]

❖ CERTIFICATION

Lloyd's ISO 9001:2015 certified - UL listed - GOST approved - EAC approved



❖ PACKAGING

Packing in 6 layers carton boxes, steel drums or steel tins to ensure protection from external agents.