HYDAC OK 11S 4.6 X (PRF) air-oil cooler

Manufacturer: HYDAC

Manufacturer part number / published order designation: 7706703

Published model: OK 11S 4.6 X (PRF)

About this compilation

Prepared by Hydmaster from selected manufacturer documentation. Original technical pages follow without cropped drawings, rewritten data or altered units. This cover and index are Hydmaster editorial material, not a manufacturer-issued exact-execution datasheet.

Coverage: selected pages relevant to the identified size and configuration. Other options or neighbouring models retained on an original page apply only where explicitly identified.

Execution notes and conditions

Factory P/N and assigned B/X/IBP3/PRF configuration are proved by the exact current manufacturer card; selected family drawing does not print the P/N.

Drawing states consult factory for unlisted details. Exact execution general arrangement and configuration-specific thermal performance are not established by the family sheet.

Do not transfer alternate fan/AC/DC, optional filter or bypass components/overall dimensions into this factory execution. Curves remain applicable only under their printed test conditions.

Graph remains the original manufacturer family sheet with its printed caption and test conditions; it does not establish exact factory-P/N thermal performance.

Source-page index

Source page numbers below are physical pages of each complete original PDF. The original printed page labels and technical content remain unchanged. Compiled page numbers count this cover/index.

Source A: Hydac Ok Cooler Datasheets

Original pages	Compiled pages	Relevant content
7	2	Matching titleblock size-family installation drawing/ports and family operating limits; original optional configurations and graph retained with its printed caption/test conditions. Printed curve is not verified as this exact P/N performance.

SPECIFICATIONS:

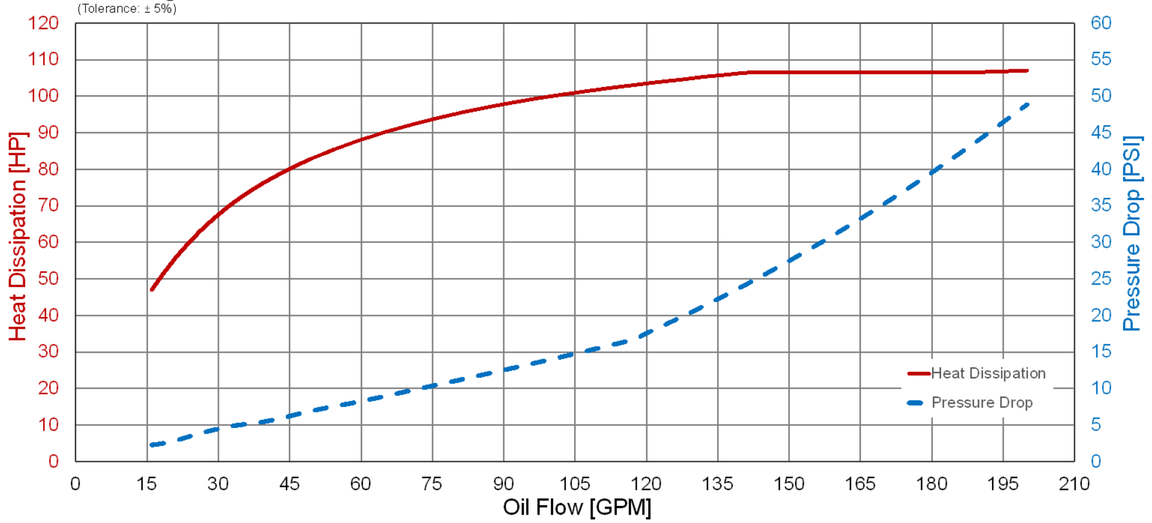
Materials	Housing: Welded Steel Heat Exchanger: Aluminum Heavy Duty Bar and Plate Fan: Plastic Motor: TEFC, NEMA or IEC frame (varies by cooler size)
Mounting Orientation	Horizontal, motor shaft
Maximum Pressure	230 psi (16 Bar)
Fluids	Mineral oil to DIN 51524 Part 1 and 2, and Water Glycol mixtures
Ambient Temperature	50° – 104°F (10° – 40°C) (Contact factory for other temperatures)
Maximum Oil Viscosity	2000 cSt
Maximum Oil Temperature	266°F (130°C)
Standard Air Flow Direction	Air pulled across heat exchanger
Noise	93.8 dBa @ 1 meter *

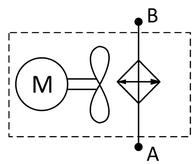
* Noise level is only a guide as acoustic properties depend on the characteristics of the room, connections, viscosity and resonance.

Fan Motor			
Specs		**Specs**	
Enclosure:	TEFC	**Insulation Class:**	B
Frame:	213TC	**Current @ Voltage:**	19.0 A @ 230 V
Frame Material:	Steel		9.5 A @ 460 V
Power @ Frequency:	7.5 HP @ 60 HZ	**IP Rating**	54
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**Mounting Arrangement:**	F1
Voltage @ Frequency:	230 V @ 60 HZ	**Power Factor:**	80
	460 V @ 60 HZ	**Design Code:**	B
XP Class and Group:	N/A	**Agency Approvals:**	UR
XP Division:	N/A		CSA EEV
Inverter Code:	Inverter Ready		CSA

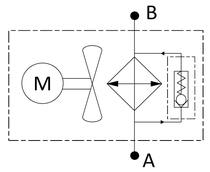
Note: Hydac reserves the right to modify this information at anytime without prior notice.

OK 11S Performance Curves
Heat Dissipation @ ΔT = 40°F
Pressure Drop @ 20 cSt
(Tolerance: ± 5%)

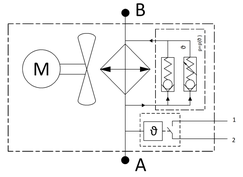




NON BYPASS HYDRAULIC DIAGRAM



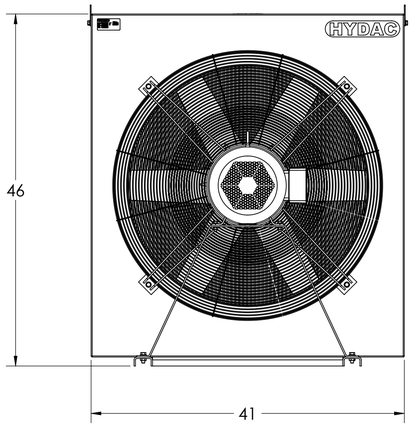
PRESSURE BYPASS HYDRAULIC DIAGRAM



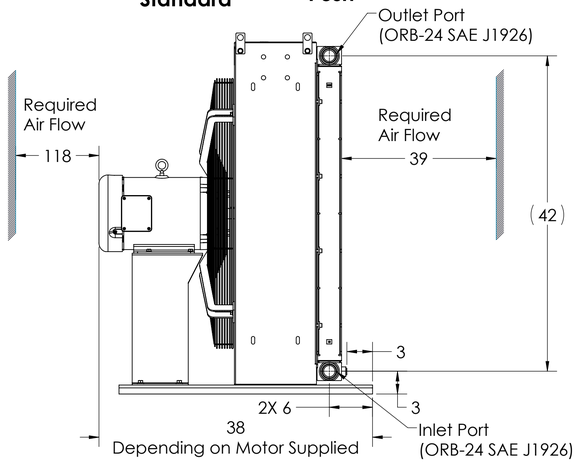
TEMPERATURE PRESSURE BYPASS HYDRAULIC DIAGRAM

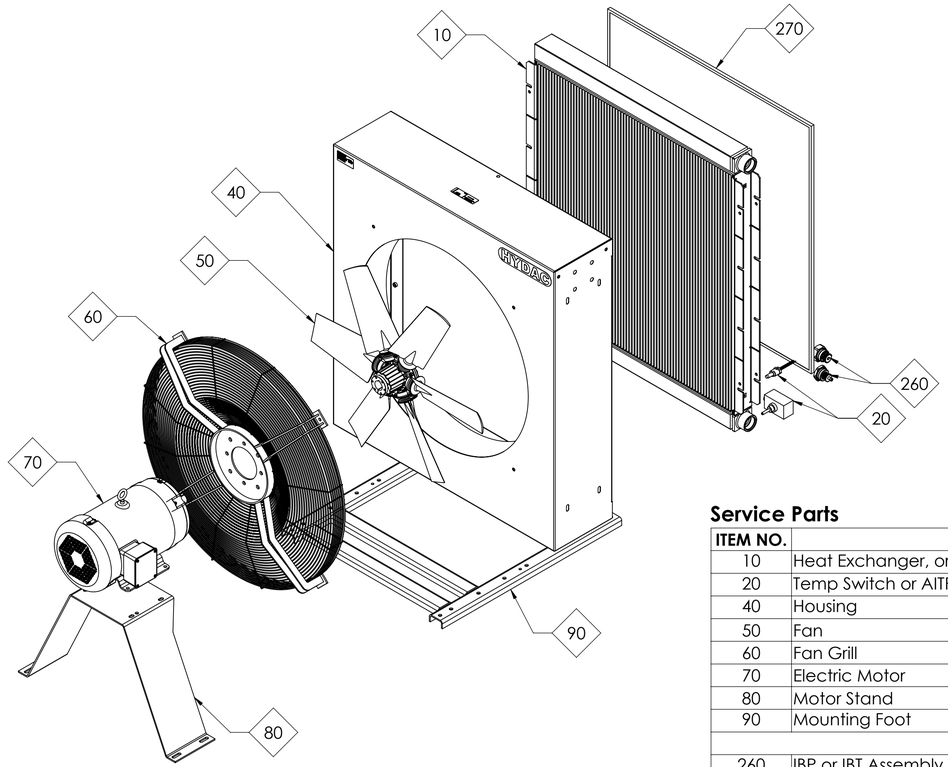
UNCONTROLLED IF PRINTED

FAN ROTATION



AIR FLOW Standard **AIR FLOW Push**





REVISIONS					
ZONE	REV.	ECN	DESCRIPTION	DATE	APPROVED
	A		Production Release	11/17/2025	EJG/RMK

Service Parts

ITEM NO.	DESCRIPTION	QTY.
10	Heat Exchanger, or Bypass Heat Exchanger	1
20	Temp Switch or AITR (Optional)	2
40	Housing	1
50	Fan	1
60	Fan Grill	1
70	Electric Motor	1
80	Motor Stand	1
90	Mounting Foot	1
	Optional Items	
260	IBP or IBT Assembly	1
270	Air Filter	1

For details not found in this document, consult the factory.

MATERIAL: -	DO NOT SCALE	NAME	DATE
FINISH: -	DRAWN	EJG	11/17/2025
PROJECT:	CHECKED	SLB	11/17/2025
Units: **INCHES**	APPROVED	SLB	11/17/2025
	INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5	THIRD ANGLE PROJECTION	

HYDAC Cooling Division
Denver, NC USA

TITLE: OK 11S 4.6 DATASHEET

REF

SIZE D | DWG. NO. 7707348 | Revision A

SCALE: 1:5 | WEIGHT: 212 Kg | SHEET 1 OF 1

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