HYDAC OK 10S 4.6 X (PRF) air-oil cooler

Manufacturer: HYDAC

Manufacturer part number / published order designation: 7706699

Published model: OK 10S 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 discrepancy: page6 drawing titleblock identifies OK10S4.6 but graph caption reads OK9S Performance Curves. Do not call this an exact OK10S performance curve or extract a thermal rating.

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
6	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.

REVISIONS					
ZONE	REV.	ECN	DESCRIPTION	DATE	APPROVED
	A		Production Release	3/24/2026	EJG/WJH

SPECIFICATIONS:

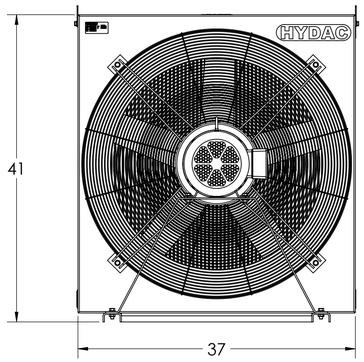
Materials	Housing: Welded Steel Heat Exchanger: Aluminum Heavy Duty Bar and Plate Fan: Plastic Motor: TEFC, NEMA
Mounting Orientation	Horizontal, motor shaft
Maximum Pressure	230 psi (16 Bar)
Fluids	Mineral oil to DIN 51524 Part 1 and 2, Water Glycol mixtures.
Ambient Temperature	50° – 104°F (10° – 40°C) (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	90 dBa @ 1 Meter *

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

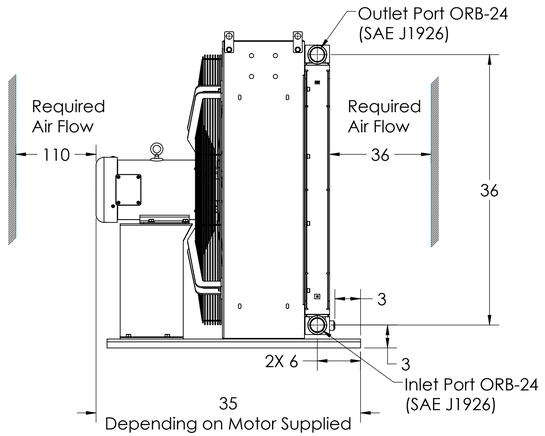
Fan Motor			
Specs		**Specs**	
Enclosure:	TEFC	**Insulation Class:**	F
Frame:	184TC	**Current @ Voltage:**	13.4 A @ 230 V
Frame Material:	Steel		6.7 A @ 460 V
Power Output @ Frequency:	5.0 HP @ 60 HZ		
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**IP Rating**	54
Voltage @ Frequency:	460 V @ 60 HZ	**Mounting Arrangement:**	F1
	230 V @ 60 HZ	**Power Factor:**	78
XP Class and Group:	None	**Design Code:**	B
XP Division:	Not Applicable	**Agency Approvals:**	UR
Inverter Code:	Inverter Ready		CSA EEV

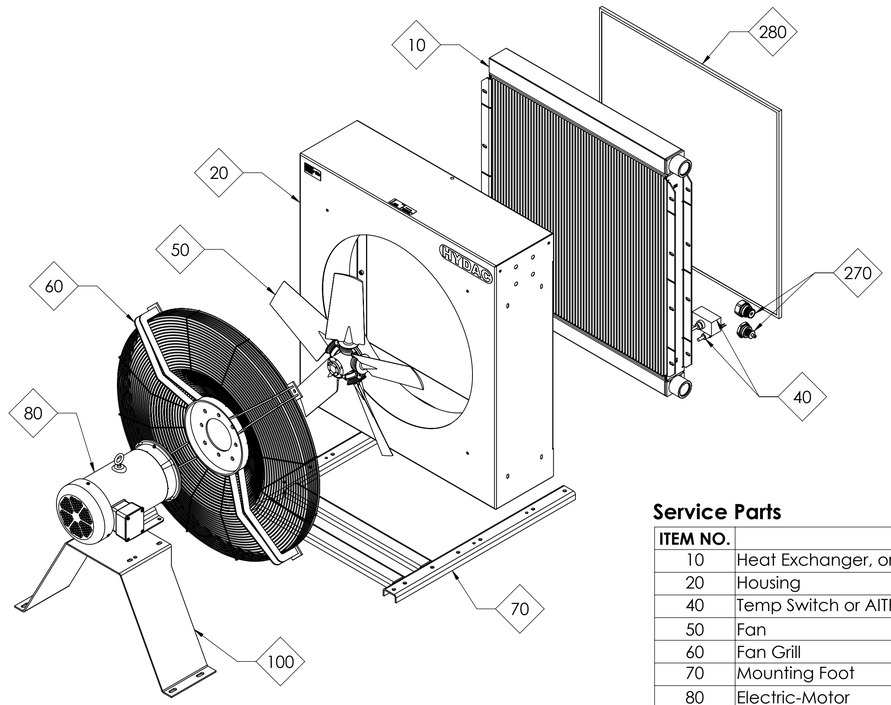
Note: Hydac reserves the right to modify this information at anytime without prior notice.

FAN ROTATION

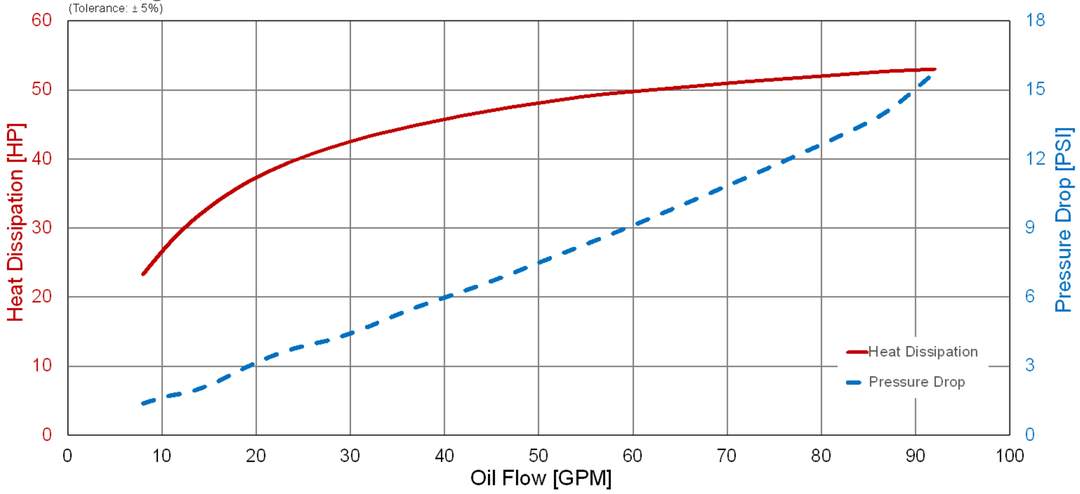


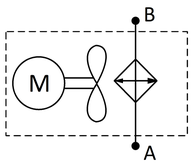
AIR FLOW Standard **AIR FLOW Push**



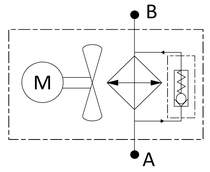


OK 9S Performance Curves
Heat Dissipation @ ΔT = 40°F
Pressure Drop @ 20 cSt
(Tolerance: ± 5%)

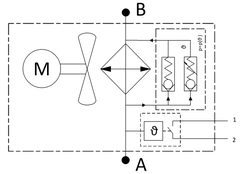




NON BYPASS HYDRAULIC DIAGRAM



PRESSURE BYPASS HYDRAULIC DIAGRAM



TEMPERATURE PRESSURE BYPASS HYDRAULIC DIAGRAM

Service Parts

ITEM NO.	DESCRIPTION	QTY.
10	Heat Exchanger, or Bypass Heat Exchager	1
20	Housing	1
40	Temp Switch or AITR	1
50	Fan	1
60	Fan Grill	1
70	Mounting Foot	1
80	Electric-Motor	1
100	Motor Support Stand	1
	Optional Items	
270	IBP, or IBT Assembly	1
280	Air Filter	1

UNCONTROLLED IF PRINTED

For Details not found in this document, consult the factory

MATERIAL: -
FINISH: -
PROJECT:
Units: **INCHES**

	NAME	DATE
DO NOT SCALE		
DRAWN	EJG	11/17/2025
CHECKED	WJH	03/24/2026
APPROVED	WJH	03/24/2026

INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5
THIRD ANGLE PROJECTION

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HYDAC Cooling Division
Denver, NC USA

TITLE: OK 10S 4.6 DATASHEET

REF

SIZE	DWG. NO.	Revision
D	7701899	A

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