

COOL-FIT® Easy Flow

Features

- Backlit display
- Fluids and concentrations pre-calibrated
- High reliability
- Simple configuration
- Velocity from 0.1 m/s to 6 m/s (0.3 fps to 20 fps)
- Easy to use 6 button operation
- Battery life up to 1,000 hours
- Dust and moisture resistant
- Protected rubber cover/ boot

Description

The COOL-FIT® Easy Flow enables professional hydronic system technicians to balance the flow of water based coolants through a new or existing hydronic system quickly and easily.

A COOL-FIT® system includes the Model 6500 COOL-FIT® Easy Flow hand held monitor, and a simple paddlewheel flow sensor, each sold separately.

Applications

- Initial start up and balancing of hydronic secondary cooling systems
- Commercial Refrigeration
- Cooling



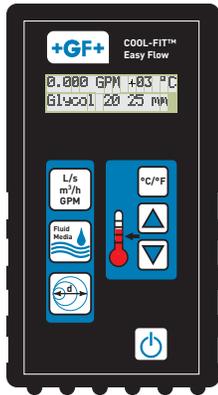
Standard Sensor (with red cap)

System Overview

Signet 6500 COOL-FIT Easy Flow	
Signet COOL-FIT Flow Sensor (Sold Separately) 515 2536	
Installation Fittings, COOL-FIT or Signet (sold separately)	

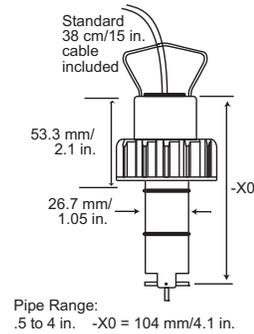
Dimensions

Including Boot
Length 21.5cm (8 3/4 in.)
Width 11.5cm (4 1/2 in.)
Depth 4.25cm (1 3/4 in.)



3-6500
159 001 537
COOL-FIT® Easy Flow

Standard Mount Sensor



Pipe Range:
.5 to 4 in. -X0 = 104 mm/4.1 in.

Specifications

General

Instrument Temperature Accuracy
 $\pm 1\text{ }^\circ\text{C}$
Cable Type: RJ 45
Cable Length:
Easy flow hand held monitor
cable 102.5 cm (36 in.)
Sensor cable 37 cm (14 1/2 in.)

Power Requirements

Four AA batteries
Battery life up to 1,000 hours

Units of Measurement Flow

L/s Litres per second
L/m Litres per minute
m3h Cubic Meters per hr
m/s Meters per second
GPM Gallons per minute
GPH Gallons per hour
fps Feet per second

Fluid Media Pre-Programmed

Water
HC Marine
Propylene glycol 10%
Propylene glycol 20%
Propylene glycol 35%

Max. Pressure/Temperature Rating

Operating Temperature Range:
 $-10\text{ }^\circ\text{C}$ to $+40\text{ }^\circ\text{C}$
Storage Temperature:
 $-40\text{ }^\circ\text{C}$ to $+40\text{ }^\circ\text{C}$

Environmental Requirements

Dust and moisture resistant

Shipping Weight 1 kg, 2 lb 3 oz.

Standards and Approvals

- CE
- RoHS compliant

Flow Sensor Specifications

General

Flow Rate Range:

- 6515: 0.3 to to 6 m/s (1 to 20 ft/s)
- 6536: 0.1 to to 6 m/s (0.3 to 20 ft/s)

 Pipe Size Range:
DN15 to DN50 (0.5 to 2 in.)
Linearity: $\pm 1\%$ of full range @ $25\text{ }^\circ\text{C}$ ($77\text{ }^\circ\text{F}$)
Repeatability: $\pm 0.5\%$ of full range @ $25\text{ }^\circ\text{C}$ ($77\text{ }^\circ\text{F}$)

Electrical (6515)

Frequency:
19.7 Hz per m/s nominal
(6 Hz per ft/s); sinusoidal
Amplitude:
3.3 V p/p per m/s nominal
(1 V p/p per ft/s)
Source Impedance: 8 K Ω

Electrical (6536)

Frequency:
49 Hz per m/s nominal
(15 Hz per ft/s) nominal
Supply Voltage: 3.3 to 24 VDC regulated
Supply Current: $<1.5\text{ mA}$ @ 3.3 to 6 VDC
 $<20\text{ mA}$ @ 6 to 24 VDC

Output Type:

Open collector transistor, sinking
Output Current: 10 mA max.

Max. Pressure/Temperature Ratings

12.5 bar @ $20\text{ }^\circ\text{C}$, 1.7 bar @ $85\text{ }^\circ\text{C}$:
(180 psi @ $68\text{ }^\circ\text{F}$, 25 psi @ $185\text{ }^\circ\text{F}$)

Operating Temperature:

$-18\text{ }^\circ\text{C}$ to $66\text{ }^\circ\text{C}$, ($0\text{ }^\circ\text{F}$ to $150\text{ }^\circ\text{F}$)

Pipe Diameters, Fittings,

ABS COOL-FIT

Use 3-6515-P0 or 3-6536-P0 with:
25 mm, 32 mm, 40 mm, 50 mm, 63 mm
DN20, DN25, DN32, DN40, DN50
3/4 in, 1 in, 1 1/4 in, 1 1/2 in, 2 in

Wetted Materials

- Sensor Body: Glass-filled PP (black)
- O-rings: FPM
- Rotor Pin: Titanium
- Rotor: Black PVDF

Shipping Weight

3-6500 0.840 kg
3-6515-P0 0.454 kg 1.0 lb
3-6536-P0 0.454 kg 1.0 lb

Ordering Information

Mfr. Part No.	Code	Description
3-6500	159 001 537	COOL-FIT® Easy Flow Hand Held Monitor Kit
3-6515-P0	159 001 535	COOL-FIT® Rotor-X Flow Sensor, pipe range P0 is 1/2 to 4 in, or approximately 12 1/2 mm to 104 mm
3-6536-P0	159 001 536	COOL-FIT® high res low flow sensor, pipe range P0 is 1/2 to 4 in., or approximately 12 1/2 mm to 104 mm

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