



**136X2819**

**FC-103P7K5T4E55H1TGXXOX5XXXXAXBKCXXXXD0**

Frequency converter  
 FC-103P7K5T4E55H1TGXXOX5XXXXAXBKCXXXXD0  
 VLT® Refrigeration Drive FC-103  
 7.5 KW / 10 HP, Three phase  
 380 - 480 VAC, IP55 / Type 12  
 RFI filter Class A1 / B  
 Safe Stop  
 Graphical Loc. Cont. Panel  
 Not coated PCB, No Mains Option  
 Latest release std. SW.  
 No A Option, MCB-101 General purpose I/O  
 No C1 option, 24V DC backup  
 Frame: A5  
 Other options according to Model code

**Model code:** FC-103P7K5T4E55H1TGXXOX5XXXXAXBKCXXXXD0

Whether you want to operate compressors, pumps or fans, the VLT® Refrigeration Drive FC 103 gives you the opportunity to save energy and extend the lifetime of the components.

[View Efficiency Data](#)

**PRODUCT DETAILS**

<b>Gross weight</b>	14.5 kg	
<b>Net weight</b>	14.2 kg	
<b>Volume</b>	52.36 l	
<b>EAN</b>	5714853109876	
<b>VLT® REFRIGERATION DRIVE FC 103 SERIES</b>		
<b>Product View (Switch)</b>	GLBL	Global (Standard)
<b>Product Group</b>	FC-	VLT® Refrigeration Drive
<b>Series</b>	103	103
<b>Power Rating</b>	P7K5	7.5 KW / 10 HP
<b>Phase</b>	T	Three phase
<b>Mains Voltage</b>	4	380 - 480 VAC
<b>Enclosure</b>	E55	IP55 / Type 12
<b>RFI Filter</b>	H1	RFI filter Class A1 / B
<b>Brake - Safe Stop</b>	T	Safe Stop
<b>LCP</b>	G	Graphical Loc. Cont. Panel
<b>Coating PCB</b>	X	Not coated PCB
<b>Mains Option</b>	X	No Mains Option
<b>Adaptation A</b>	O	Metric thread cable entri
<b>Adaptation B</b>	X	No adaptation
<b>Software Release</b>	SXXX	Latest release std. SW.
<b>Software Language Pack</b>	X	Standard Language Pack
<b>A Option</b>	AX	No A Option
<b>B Option</b>	BK	MCB-101 General purpose I/O
<b>C0 Option MCO</b>	CX	No C0 option
<b>C1 Option</b>	X	No C1 option

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## Product Detail | FC-103P7K5T4E55H1TGXXOXSSXXXAXBKXXXXD0

## PRODUCT DETAILS

<b>C Option Software</b>	XX	No software option
<b>D Option</b>	D0	24V DC backup
<b>Frame Size</b>	A5	A5
<b>Product Catalog</b>	NO_VIEW	NO VIEW
<b>Typecode Part 1</b>		FC-103P7K5T4E55H1TGX
<b>Typecode Part 2</b>		XOXSSXXXAXBKXXXXD0
<b>Power 110% (NO) [KW]</b>		7.5
<b>Height [mm]</b>		420,0
<b>Width w/ no C options [mm]</b>		242,0
<b>Depth [mm]</b>		200,0
<b>Depth with Option A/B [mm]</b>		200,0
<b>kVA</b>		11.1
<b>Power Loss NO [W]</b>		255
<b>Power Loss NO [W]</b>		255
<b>Continuous Current (NO) [A]</b>		16
<b>Intermittent Current (NO) [A]</b>		17.6
<b>Continuous Current (NO) [A]</b>		14.5
<b>Intermittent Current (NO) [A]</b>		16
<b>Calculated Gross Weight [kg]</b>		14.6
<b>Calculated Net Weight [kg]</b>		14.3
<b>ECCN EU</b>		X.A.I.003
<b>ECCN US</b>		3A999
<b>Vendor</b>	ERR01	Cannot Determine Vendor
<b>Recommended Factory</b>	ERR01	Cannot Determine Vendor
<b>Modelcode01</b>		FC-103P7K5T4E55H1TGX
<b>Modelcode02</b>		XOXSSXXXAXBKXXXXD0

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store [🔗](#)

## Accessories

**130B3242** [🔗](#)**Back plate IP66/Type 4X, A5**

FC 300 rear cover (stainless steel) for the devices in IP66 Case size A5

**130B4598** [🔗](#)**Weather shield f. outdoor instl A4 to B2**

Weather shield for enclosure sizes A4, A5, B1, B2

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**Accessories**

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**130B7532** [🔗](#)**Mounting Kit f. C Option, A5**

VLT® Mounting kit for enclosure size A5.

To be used when retrofitting the following MCO options:

MCO 102 Advanced Cascade Control

MCO 305 Programmable Motion Controller

MCO 350 Synchronizing Controller

MCO 351 Positioning controller

MCO 360 Salt Controller

MCO 361 Lift Controller

MCB 113 Extended relay card (Located in MCO slot)

Product group: R1

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**130B5436** [🔗](#)**Side Fixture Mounting Kit**

Side Fixture Mounting Kit for enclosure size A5 / B1 / B2 / C1 / C2

To be used when retrofitting the following MCA options:

MCA 120 Profinet

MCA 121 EtherNet

MCA 122 Modbus TCP

MCA 123 POWERLINK

MCA 124 EtherCAT

Product group: R1

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**130B5435** [🔗](#)**DIN Rail Mounting Kit****130B1170** [🔗](#)**LCP Panel Mounting Kit**

The kit includes fasteners and gasket. No LCP and no cable included.

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**130B1385** [🔗](#)**VLT® Profibus DP V1 MCA101, unctd 5pcs****130B1028** [🔗](#)**Panel Through Mounting Kit, A5**

Push-through frame kit for FC size A5 Contains mounting frame, seal, Fastening material and assembly instructions.

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Accessories



**130B1135** [🔗](#)  
**VLT® PROFINET MCA 120, UNCOATED**

MCA 120 PROFINET interface  
 - Supports operation on PROFINET network with extensive properties  
 - DCP support for easy setting u. Communication parameters via the PLC  
 - On Board web-Page with Drive Status  
 - Parameterization with the MCT10 software  
 - 2 port version, reduced external hardware



**130B1117** [🔗](#)  
**LCP Mounting Kit, w/ no LCP**

The kit includes fasteners, 3m cable and gasket - There is no LCP included.



**130B1155** [🔗](#)  
**USB extension Cable, 350mm**

USB extension kit for FC 300 cable length: 350mm for the housing size: B2, C1 and C2 screw connection M 25



**130B1080** [🔗](#)  
**Mounting Brackets, IP55/66, A5**

Mounting brackets for enclosure size A5



**130B1077** [🔗](#)  
**Blindcover, w/ Danfoss logo, IP55/66**

LCP Blindcover IP66



**130B1100** [🔗](#)  
**VLT® Profibus DP V1 MCA 101**

Provides wide compatibility, a high level of availability, support for all major PLC vendors and compatibility with future versions. Fast, efficient communication, transparent installation, advanced diagnosis and parameterization and auto-configuration of process data using GSD-file. Acyclic parameterization using PROFIBUS DP-V1, -PROFIdrive or Danfoss FC profile state machines, PROFIBUS DP-V1, Master Class 1 and 2.



**130B1098** [🔗](#)  
**Back plate, IP55/Type12, A5**

FC 300 back cover (galvanized steel) for the devices in IP21 / 55 Case size: A5

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## Accessories



### 175Z0929 [🔗](#)

#### LCP Cable, 3m

Cable for control panel (LCP), 3 meters

Works with the following LCP:

Alphanumeric control panel LCP3 - 175N0131

VLT® LCP 102 Graphic Display - 130B1107

VLT® LCP 101 Numeric Display - 130B1124

VLT® LCP 102 Graphic display IP66 - 130B1078

Product group: F1

Image  
coming  
soon

### 175U0009 [🔗](#)

#### Mounting bracket Kit, 216 x 30 x 18mm

Mounting angle for flatpack resistor 200W



### 175N2584 [🔗](#)

#### VLT® EtherNet/IP Modbus TCP gateway



### 134B0460 [🔗](#)

#### LCP 103 Wireless Communication Panel

With VLT® Wireless Communication Panel LCP 103 you can communicate with MyDrive® Connect - an app that can be downloaded for iOS and Android based smartphones. MyDrive® Connect makes commissioning easy, monitor and maintain tasks on your frequency converter. VLT® Wireless Communication Panel LCP 103 shows the current status of the drive (On, Warning, Alarm, Wifi connection) via built-in LED. Detailed information is also available using MyDrive® Connect. Here do you have access to i.a. status, menu and alerts. You can also see graphs over the latest available data.

The new VLT® Wireless Communication Panel LCP 103 allows you to wireless communication to the following drives:

- VLT® HVAC Drive FC 102
- VLT® Refrigeration Drive FC 103
- VLT® AQUA Drive FC 202
- VLT® AutomationDrive FC 302

[!] Note!

LCP 103 only works on frequency converters produced in 2018 (White USB stik).

Product group: R1

Image  
coming  
soon

### 134B1992 [🔗](#)

#### Control Terminals w/ screw connections

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Accessories



**130B1106** [🔗](#)

**VLT® LonWorks MCA 108, uncoated**

Developed for building automation, it enables communication between individual units in the same system (peer-to-peer) and supports decentralizing of control. No need for main station (master-follower). Units receive signals directly. Supports Echelon free-topology interface (flexible cabling and installation) and embedded I/Os and I/O options (easy implementation of decentral I/Os). Sensor signals can quickly be moved to another controller using bus cables. Certified as compliant with LonMark ver. 3.4 specifications.



**130B1169** [🔗](#)

**VLT® AK-LonWorks MCA 107, uncoated**



**130B0295** [🔗](#)

**sparepart/terminals accessory bag**

Image coming soon

**130B4847** [🔗](#)

**extension cable for lcp+communication**



**134B8492** [🔗](#)

**Transducer 0-10g, 4-20mA; HS-22B50**



**134B8493** [🔗](#)

**Transducer 0-25mm/s RMS 4-20mA**  
CBM Transducer 0-25mm/s RMS 4-20mA



**134B8494** [🔗](#)

**Transducer w, temp 0-25mm/s RMS 4-20mA**



**134B8496** [🔗](#)

**CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.**

Image coming soon

**134B8497** [🔗](#)

**Cable assy, M12 female connec.10m screen**

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**Accessories**

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**134B9414** **Antifreeze Thermostat FS20, 0/+15C**

TWO-PHASE FROST PROTECTION THERMOSTATS FS-20-UW

Electronic frost protection thermostat or frost monitor with switching relay output, continuous temperature and valve output (summation output 0–10 V) and control and cascading output (0–10 V), optionally with connection for a heating element. A IP65 resistant plastic housing with display with the actual temperature, measuring range, overrange/underrange of the set switch point (frost protection temperature) and alarm indicator for "frost" or "error" (capillary breakage, overvoltage/undervoltage), quick-locking screws and a fully active sensor rod made of copper. The delivery scope includes a set of MK-05-K mounting clamps for expert attachment of the sensor rod.

Measuring range: 0...+15 °C / 32...+59 °F

Accuracy: typical ± 1 K (at +10 °C)

Sensor type: 3m Copper rod active along the entire sensor length, min. response length of 25 cm

Input: 1 x 0 -10 V control input DDC &amp; 1 x 0 -10 V cascading input

Output: 1 x 0 -10 V output temperature (corresponding to 0...+15 °C) &amp; 1 x 0 -10 V output valve (frost signal with control voltage and cascading)

1 x potential-free changeover contact (24 V), range of adjustment 0...+15 °C

Current consumption: max. 100 mA at 24 V DC

Load resistance:  $R_L > 50 \text{ k}\Omega$ 

Ambient temperature: -15...+50 °C / 5...+122 °F (Housing) &amp; -20...+60 °C / -4...+140 °F Sensor and capillary tube &gt; 20 cm from the housing.

Power: 24VAC/DC (± 10%) 24DC &lt;2,4W

T2-IP65 plastic housing with three-line display 70x40 mm (WxH), a M16 cable glands and MK-05-K mounting clamps.

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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**Accessories**


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**134B9413** **Airflow Sensor KLQ CO2 & Air Quality**

DUCT AIR QUALITY (VOC) AND CO2 SENSOR KLQ-CO2-MB

Maintenance-free duct sensor covering air quality (VOC 0...100 %), carbon dioxide (CO2 0...5000 ppm) and atmospheric pressure (hPa). The air quality is detected by a VOC sensor (mixed gas sensor for volatile organic substances) and include an automatic calibration. It determines the loading of the room air due to contaminated gases such as cigarette smoke, body perspiration, exhaled breathing air, solvent vapors, emissions etc. The air contamination can be selected into different sensitivity ranges as low, medium or high. The CO2 measurement is performed using an optical NDIR sensor (non-dispersive infra-red technology), and the detection range is calibrated for standard applications such as monitoring residential rooms and conference rooms. A microprocessor-controlled solution with factory sensor calibration, Modbus RTU connection in a resistant IP65 plastic housing with mounting flange, quick-locking screws and two M16 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

VOC Sensor: Volatile Organic Compounds sensor (metal oxide) with automatic calibration

VOC measuring range: 0...100 % air quality; referred to calibrating gas & selection of VOC sensitivities (low/medium/high)

VOC measuring accuracy: typical  $\pm 20\%$  of final value (referred to calibrating gas)

CO2 Sensor: optical NDIR sensor (non-dispersive infra-red technology) including atmospheric pressure compensation (up to 1100 mbar) with manual or automatic calibration

CO2 measuring range: 0...5000 ppm

CO2 measuring accuracy: typical  $\pm 30$  ppm ( $\pm 3\%$  of measured value) & temperature dependence:  $\pm 5$  ppm pro  $^{\circ}\text{C}$  or  $\pm 0,5\%$  of measured value pro  $^{\circ}\text{C}$  (whichever is higher) & pressure dependence:  $\pm 0.13\%$  per mm Hg

Medium: clean air and non-aggressive, non-combustible gases

Power: 24VAC/DC ( $\pm 10\%$ ) 24DC  $< 1,6\text{W}$

Operation temperature:  $-10...+60$   $^{\circ}\text{C}$  /  $14...+140$   $^{\circ}\text{F}$

T2-IP65 plastic housing two M20 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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**Accessories**


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**134B9412** [🔗](#)**Airflow Sensor TF65 PT1000 Temperature**

DUCT TEMPERATURE SENSOR TF 65

The TF 65 temperature measuring transducer is a PT1000 class B resistance sensor with passive output. Measuring range from  $-30...+150^{\circ}\text{C}$ . In a resistant IP67 plastic housing and M16 cable gland for cable connection and a straight protective measuring tube and a mounting flange.

Sensor type: PT1000 class B (DIN EN 60751) 1000ohm at  $0^{\circ}\text{C} \pm 0,3\text{ K}$ Measuring range:  $-30...+150^{\circ}\text{C} / -22...+302^{\circ}\text{F}$ Ambient temperature:  $-20...+100^{\circ}\text{C} / -4...+212^{\circ}\text{F}$ Testing current:  $< 0.6\text{ mA}$ Insulating resistance: 100 M#, at  $+20^{\circ}\text{C}$  (500V DC)

Connection type: 2-wire connection

Measuring tube: stainless steel, V4A (1.4571),  $\varnothing 6\text{ mm}$ , inserted length = 300 mm / 11.8 in

T1-IP67 plastic housing with a M16 cable glands and a mounting flange.

Housing dimensions: 72 x 64 x 37.8 mm / 2.83 x 2.52 x 1.49 in

**134B9411** [🔗](#)**Wall Sensor AFTF Temp & Humidity**

ON-WALL- HUMIDITY- AND TEMPERATURE SENSORS AFTF-MB

Calibratable outside humidity and temperature sensor AFTF, detect the relative humidity (0...100% RH) and the temperature ( $-35...+80^{\circ}\text{C}$ ), including various parameters in the humidity measurement. Applied in clean air and non-aggressive, dust-free environment. With a Modbus connection in a resistant IP65 plastic housing and M20 cable gland for cable connection, with quick-locking screws and an exchangeable plastic sinter filter. International SI units (default) can be changed to imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) /  $-35...+80^{\circ}\text{C}$  (temperature)

Medium: clean air and non-aggressive, non-combustible gases

Deviation, humidity: typical  $\pm 2.0\%$  (20...80 % RH) at  $+25^{\circ}\text{C}$ , otherwise  $\pm 3.0\%$ Deviation, temperature: typical  $\pm 0.4\text{ K}$  at  $+25^{\circ}\text{C} / \pm 77^{\circ}\text{F}$ Zero point offset:  $\pm 10\%$  RH (humidity) /  $\pm 5^{\circ}\text{C}$  (temperature)Power: 24VAC ( $\pm 20\%$ ) / 15...36VDC - 24DC  $< 1,2\text{W}$ Operation temperature:  $-30...+70^{\circ}\text{C} / -22...+158^{\circ}\text{F}$ 

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in

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## Accessories

**134B9410****Wall Sensor ATM2 Temperature**

OUTSIDE / WET ROOM TEMPERATURE SENSOR ATM2-MB

Calibratable outside temperature sensor ATM2, PT1000 measure temperature (-50...+150 °C), with Modbus RTU connection, in a resistant IP65 plastic housing with quick-locking screws and M20 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

Sensor type: PT1000 class B (DIN EN 60751)

Measuring range: - 50...+150°C / -31... +176°F

Deviation: typical ± 0.2 K at +25 °C / ± 77 °F

Zero point offset: ± 10 °C / ± 50 °F

Ambient temperature: Measuring transducer -30...+70 °C / -22... +158°F

Medium: clean air and non-aggressive, non-combustible gases

Power: 24VAC (± 20%) / 15...36VDC - 24DC &lt;1,2W

Operation temperature: -30...+70 °C / -22...+158 °F

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in

Image  
coming  
soon**134B9409****Airflow Sensor 8147 Temp&Humidity&7000Pa**

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±7000PA-MB

Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature (-35...+80 °C) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. ± 7000 Pa) with connection nozzles for pressure hose (Ø 6 mm). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / - 35...+80°C / -31... +176°F (temperature)

Medium: clean air and non-aggressive, non-combustible gases

Deviation, humidity: typical ± 2.0 % (20...80 % RH) at +25°C/+77°F , otherwise ± 3.0 %

Deviation, temperature: typical ± 0.2 K at +25 °C / ± 0.4 °F at +77 °F

Pressure range: ± 7000 Pa

Accuracy: 7000 Pa/28 inWC: typical ± 105 Pa at +25 °C / ± 0.12 inWC at +77 °F

Above- # below-pressure: max. ± 50 kPa

Power: 24VAC (± 20%) / 15...36VDC - 24DC &lt;0,2W

Operation temperature: -30...+70 °C / -22...+158 °F

Media temperature -20...+50 °C / -4...+122 °F IP65 plastic housing two

M16 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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**Accessories**

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Image  
coming  
soon**134B9408** **Airflow Sensor 8148 Temp&Humidity&500Pa**

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS  $\pm 500\text{Pa}$ -MB  
Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ( $-35\text{...}+80\text{ }^\circ\text{C}$ ) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max.  $\pm 500\text{ Pa}$ ) with connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) /  $-35\text{...}+80\text{ }^\circ\text{C}$  /  $-31\text{...}+176\text{ }^\circ\text{F}$  (temperature)

Medium: clean air and non-aggressive, non-combustible gases

Deviation, humidity: typical  $\pm 2.0\%$  (20...80 % RH) at  $+25\text{ }^\circ\text{C}/+77\text{ }^\circ\text{F}$ , otherwise  $\pm 3.0\%$

Deviation, temperature: typical  $\pm 0.2\text{ K}$  at  $+25\text{ }^\circ\text{C}$  /  $\pm 0.4\text{ }^\circ\text{F}$  at  $+77\text{ }^\circ\text{F}$

Pressure range:  $\pm 500\text{ Pa}$

Accuracy: 500 Pa/2.0 inWC: typical  $\pm 13\text{ Pa}$  at  $+25\text{ }^\circ\text{C}$  /  $\pm 0.05\text{ inWC}$  at  $+77\text{ }^\circ\text{F}$

Above- # below-pressure: max.  $\pm 50\text{ kPa}$

Power: 24VAC ( $\pm 20\%$ ) / 15...36VDC - 24DC  $<0,2\text{ W}$

Operation temperature:  $-30\text{...}+70\text{ }^\circ\text{C}$  /  $-22\text{...}+158\text{ }^\circ\text{F}$

Media temperature  $-20\text{...}+50\text{ }^\circ\text{C}$  /  $-4\text{...}+122\text{ }^\circ\text{F}$  IP65 plastic housing two

M16 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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## Accessories

**134B9407** [🔗](#)**Airflow Sensor KFTF Temp & Humidity**

DUCT HUMIDITY- AND TEMPERATURE SENSORS KFTF-MB

Calibratable duct humidity and temperature sensor KFTF-T3 ( $\pm 2.0\%$ ) with Modbus RTU connection, in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection and a plastic sinter filter (exchangeable). Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ( $-35...+80\text{ }^{\circ}\text{C}$ ) inside a tube, including various parameters in the humidity measurement. The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices.

International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) /  $-35...+80\text{ }^{\circ}\text{C}$  (temperature)

Medium: clean air and non-aggressive, non-combustible gases

Deviation, humidity: typical  $\pm 2.0\%$  (20...80 % RH) at  $+25\text{ }^{\circ}\text{C}$ , otherwise  $\pm 3.0\%$

Deviation, temperature: typical  $\pm 0.2\text{ K}$  at  $+25\text{ }^{\circ}\text{C}$

Zero point offset:  $\pm 10\%$  RH (humidity) /  $\pm 5\text{ }^{\circ}\text{C}$  (temperature)

Power: 24VAC ( $\pm 20\%$ ) / 15...36VDC - 24DC  $<1,2\text{ W}$

Operation temperature:  $-30...+70\text{ }^{\circ}\text{C}$  /  $-22...+158\text{ }^{\circ}\text{F}$

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in

**134B9406** [🔗](#)**Pressure Sensor 7227 2x7000Pa, Analog**

DUAL AIR PRESSURE SENSOR  $\pm 7000\text{ Pa}$  &  $\pm 7000\text{ Pa}$ , ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0-10 V or 4...20 mA.

Pressure range selection:  $\pm 7000\text{ Pa}$  - 0...1000Pa / 2000Pa / 3000Pa / 5000Pa / 7000Pa

Accuracy: 7000 Pa typical  $\pm 105\text{ Pa}$

Zero point offset:  $\pm 10\%$  of measuring range

Above- # below-pressure: max.  $\pm 50\text{ kPa}$

Power: 24VAC/DC ( $\pm 10\%$ )  $<1,3\text{ W}$ ,

Output: automatically switching 0 -10 V # 4...20 mA

Working resistance:  $R_a$  (ohms) = 25...450 Ohm (at I output)

Load resistance:  $R_L > 15\text{ kOhm}$  (at U output)

Operation / Media temperature:  $-20...+50\text{ }^{\circ}\text{C}$  /  $-4...+122\text{ }^{\circ}\text{F}$

T2-IP65 plastic housing with one M16 cable gland

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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## Accessories

**134B9405****Pressure Sensor 7229 500/7000Pa, Analog**DUAL AIR PRESSURE SENSOR  $\pm 500\text{Pa}$  &  $\pm 7000\text{Pa}$ , ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing$  6 mm) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0–10 V or 4...20 mA. Pressure range selection:  $\pm 500\text{ Pa} - 0...100\text{Pa} / 200\text{Pa} / 300\text{Pa} / 500\text{Pa}$   
Pressure range selection:  $\pm 7000\text{ Pa} - 0...1000\text{Pa} / 2000\text{Pa} / 3000\text{Pa} / 5000\text{Pa} / 7000\text{Pa}$

Accuracy: 500 Pa typical  $\pm 13\text{ Pa}$ Accuracy: 7000 Pa typical  $\pm 105\text{ Pa}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$ Power: 24VAC/DC ( $\pm 10\%$ )  $<1,3\text{W}$ ,

Output: automatically switching 0 -10 V # 4...20 mA

Working resistance:  $R_a$  (ohms) = 25...450 Ohm (at I output)Load resistance:  $R_L > 15\text{ kOhm}$  (at U output)Operation / Media temperature:  $-20...+50\text{ }^\circ\text{C} / -4...+122\text{ }^\circ\text{F}$ 

T2-IP65 plastic housing with one M16 cable gland

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

**134B9404****Pressure Sensor 7225 2x500Pa, Analog**DUAL AIR PRESSURE SENSOR  $\pm 500\text{Pa}$  &  $\pm 500\text{Pa}$ , ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing$  6 mm) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0–10 V or 4...20 mA. Pressure range selection:  $\pm 500\text{ Pa} - 0...100\text{Pa} / 200\text{Pa} / 300\text{Pa} / 500\text{Pa}$

Accuracy: 500 Pa typical  $\pm 13\text{ Pa}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$ Power: 24VAC/DC ( $\pm 10\%$ )  $<1,3\text{W}$ ,

Output: automatically switching 0 -10 V # 4...20 mA

Working resistance:  $R_a$  (ohms) = 25...450 Ohm (at I output)Load resistance:  $R_L > 15\text{ kOhm}$  (at U output)Operation / Media temperature:  $-20...+50\text{ }^\circ\text{C} / -4...+122\text{ }^\circ\text{F}$ 

T2-IP65 plastic housing with one M16 cable gland

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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## Accessories

**134B9402****Pressure Sensor 7247T 2x7000Pa & PT1000**DUAL AIR PRESSURE SENSOR  $\pm 7000\text{Pa}$  &  $\pm 7000\text{Pa-MB}$ 

Dual maintenance-free pressure sensor with connection facility for external Pt1000 sensor ( $-50\dots+150^\circ\text{C}$ ). Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and M16 cable gland for cable connection. International SI units (default) can be switched to Imperial (via Modbus). Incl. connection set ASD-06 (2 m connecting hose, two pressure port nipples, screws).

Pressure range:  $\pm 7000\text{ Pa}$  and  $\pm 7000\text{ Pa}$ Accuracy:  $7000\text{ Pa}/28\text{ inWC}$ : typical  $\pm 105\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.12\text{ inWC}$  at  $+77^\circ\text{F}$ Linearity:  $< \pm 1\%$  of final value & Temperature drift:  $\pm 0.1\%$  per  $^\circ\text{C}$  #  
 $^\circ\text{F}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$  /  $\pm 200\text{ inWC}$ Power:  $24\text{VAC}$  ( $\pm 20\%$ )  $<0,2\text{W}$  /  $15\dots36\text{VDC}$ Operation temperature:  $-30\dots+70^\circ\text{C}$  /  $-22\dots+158^\circ\text{F}$ Media temperature  $-20\dots+50^\circ\text{C}$  /  $-4\dots+122^\circ\text{F}$ 

T2-IP65 plastic housing with two M16 cable glands &amp; one M12 for temperature

Housing dimensions:  $126 \times 90 \times 50\text{ mm}$  /  $4.96 \times 3.54 \times 1.97\text{ in}$ **134B9401****Pressure Sensor 7249T 500/7000Pa & PT1000**DUAL AIR PRESSURE SENSOR  $\pm 500\text{Pa}$  &  $\pm 7000\text{Pa-MB}$ 

Dual maintenance-free pressure sensor with connection facility for external Pt1000 sensor ( $-50\dots+150^\circ\text{C}$ ). Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and M16 cable gland for cable connection. International SI units (default) can be switched to Imperial (via Modbus). Incl. connection set ASD-06 (2 m connecting hose, two pressure port nipples, screws).

Pressure range:  $\pm 500\text{ Pa}$  and  $\pm 7000\text{ Pa}$ Accuracy:  $500\text{ Pa}/2.0\text{ inWC}$ : typical  $\pm 13\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.05\text{ inWC}$  at  $+77^\circ\text{F}$ Accuracy:  $7000\text{ Pa}/28\text{ inWC}$ : typical  $\pm 105\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.12\text{ inWC}$  at  $+77^\circ\text{F}$ Linearity:  $< \pm 1\%$  of final value & Temperature drift:  $\pm 0.1\%$  per  $^\circ\text{C}$  #  
 $^\circ\text{F}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$  /  $\pm 200\text{ inWC}$ Power:  $24\text{VAC}$  ( $\pm 20\%$ )  $<0,2\text{W}$  /  $15\dots36\text{VDC}$ Operation temperature:  $-30\dots+70^\circ\text{C}$  /  $-22\dots+158^\circ\text{F}$ Media temperature  $-20\dots+50^\circ\text{C}$  /  $-4\dots+122^\circ\text{F}$ 

T2-IP65 plastic housing with two M16 cable glands &amp; one M12 for temperature

Housing dimensions:  $126 \times 90 \times 50\text{ mm}$  /  $4.96 \times 3.54 \times 1.97\text{ in}$ 

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## Accessories



### 134B9400 [🔗](#)

#### Pressure Sensor 7245T 2x500Pa & PT1000

DUAL AIR PRESSURE SENSOR  $\pm 500\text{Pa}$  &  $\pm 500\text{Pa-MB}$

Dual maintenance-free pressure sensor with connection facility for external Pt1000 sensor ( $-50\dots+150^\circ\text{C}$ ). Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and M16 cable gland for cable connection. International SI units (default) can be switched to Imperial (via Modbus). Incl. connection set ASD-06 (2 m connecting hose, two pressure port nipples, screws).

Pressure range:  $\pm 500\text{ Pa}$  and  $\pm 500\text{ Pa}$

Accuracy:  $500\text{ Pa}/2.0\text{ inWC}$ : typical  $\pm 13\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.05\text{ inWC}$  at  $+77^\circ\text{F}$

Linearity:  $< \pm 1\%$  of final value & Temperature drift:  $\pm 0.1\%$  per  $^\circ\text{C}/^\circ\text{F}$

Zero point offset:  $\pm 10\%$  of measuring range

Above-/below-pressure: max.  $\pm 50\text{ kPa}$  /  $\pm 200\text{ inWC}$

Power:  $24\text{VAC}$  ( $\pm 20\%$ )  $< 0,2\text{W}$  /  $15\dots 36\text{VDC}$

Operation temperature:  $-30\dots+70^\circ\text{C}$  /  $-22\dots+158^\circ\text{F}$

Media temperature  $-20\dots+50^\circ\text{C}$  /  $-4\dots+122^\circ\text{F}$

T2-IP65 plastic housing with two M16 cable glands & one M12 for temperature

Housing dimensions:  $126 \times 90 \times 50\text{ mm}$  /  $4.96 \times 3.54 \times 1.97\text{ in}$

## Spare Parts



### 130B3242 [🔗](#)

#### Back plate IP66/Type 4X, A5

FC 300 rear cover (stainless steel) for the devices in IP66 Case size A5



### 130B4185 [🔗](#)

#### Plastic cover for IP55 frame size A5



### 130B9980 [🔗](#)

#### Cable assy f. motor cable, C2



x10

### 130B9001 [🔗](#)

#### multiple 2 pole power combicon, 24V plug

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Spare Parts

Image coming soon

**130B4819** [🔗](#)  
Cable entry for a5 with metric tread



**130B1212** [🔗](#)  
**VLT® General Purpose I/O MCB 101, ctd**  
MCB 101 - Advanced I / O option  
Expands the number of freely programmable Control inputs and outputs around the following I / Os:  
- 3 digital inputs opto-decoupled 0 - 24 V.  
- 2 analog inputs 0 - 10 V.  
- 2 digital outputs NPN / PNP switchable 24 V  
- 1 analog output 0/4 - 20 mA  
with reinforced coating



**130B1208** [🔗](#)  
**1xMCB 107 24V DC coat w. mount. brackets**  
Connect an external DC supply to keep the control section and any installed option alive during power failure. Enables full operation of the LCP (including the parameter setting) and all installed options without connection to mains.



**130B1017** [🔗](#)  
**Fan assembly 92x92x38mm**  
FC heatsink fan, frame size A5



**130B0264** [🔗](#)  
**Cradle for A5,B1,B2,C1,C2,D2h enclosure**  
cradle for LCP cradle for a5, b1,b2,c1,



**130B0295** [🔗](#)  
**sparepart/terminals accessory bag**



**130B1077** [🔗](#)  
**Blindcover, w/ Danfoss logo, IP55/66**  
LCP Blindcover IP66



**130B1069** [🔗](#)  
**Multiple relay 1 plug**  
spare, 3 pole connector, relay 1, fc300

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## Spare Parts

**130B1068** [↗](#)**Multiple relay 2 plug**

spare, 3 pole connector, relay 2, fc300

**130B1066** [↗](#)**Multiple twisted mains plug**

Multiple twisted mains plug

**130B1064** [↗](#)**Terminal block for brake and loadsharing**

10 Qty Terminal blocks for Brake and load sharing.

**130B1107** [↗](#)**VLT® Control Panel LCP 102**

Graphic operating unit LCP102 Illuminated graphic display with plain text. Supports all languages and characters. Quick menu for brief commissioning. Saving and copying parameter sets. Online help for each function

**134B1714** [↗](#)**Control Card with safe stop for FC-103**

The MKII control cards are backward compatible to the old cards but will only work with SW equal or higher than 2.21. If your drive has a customer specific software or a brand labeled software version please order the old control card MKI, PN: 130B6967

Image  
coming  
soon**134B1621** [↗](#)**Assembled motor terminals for frame B4****134B7172** [↗](#)**Gasket for local control panel IP55/66****134B7178** [↗](#)**24 pole 3 connector jumper for C option**

24 pole 3 connector jumper for C option

**For more information, please use this link to visit the product page on Danfoss Product Store** [↗](#)

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## Spare Parts

**134B9413** **Airflow Sensor KLQ CO2 & Air Quality**

DUCT AIR QUALITY (VOC) AND CO2 SENSOR KLQ-CO2-MB

Maintenance-free duct sensor covering air quality (VOC 0...100 %), carbon dioxide (CO2 0...5000 ppm) and atmospheric pressure (hPa). The air quality is detected by a VOC sensor (mixed gas sensor for volatile organic substances) and include an automatic calibration. It determines the loading of the room air due to contaminated gases such as cigarette smoke, body perspiration, exhaled breathing air, solvent vapors, emissions etc. The air contamination can be selected into different sensitivity ranges as low, medium or high. The CO2 measurement is performed using an optical NDIR sensor (non-dispersive infra-red technology), and the detection range is calibrated for standard applications such as monitoring residential rooms and conference rooms. A microprocessor-controlled solution with factory sensor calibration, Modbus RTU connection in a resistant IP65 plastic housing with mounting flange, quick-locking screws and two M16 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

VOC Sensor: Volatile Organic Compounds sensor (metal oxide) with automatic calibration

VOC measuring range: 0...100 % air quality; referred to calibrating gas & selection of VOC sensitivities (low/medium/high)

VOC measuring accuracy: typical  $\pm 20\%$  of final value (referred to calibrating gas)

CO2 Sensor: optical NDIR sensor (non-dispersive infra-red technology) including atmospheric pressure compensation (up to 1100 mbar) with manual or automatic calibration

CO2 measuring range: 0...5000 ppm

CO2 measuring accuracy: typical  $\pm 30$  ppm ( $\pm 3\%$  of measured value) & temperature dependence:  $\pm 5$  ppm pro  $^{\circ}\text{C}$  or  $\pm 0,5\%$  of measured value pro  $^{\circ}\text{C}$  (whichever is higher) & pressure dependence:  $\pm 0.13\%$  per mm Hg

Medium: clean air and non-aggressive, non-combustible gases

Power: 24VAC/DC ( $\pm 10\%$ ) 24DC  $<1,6\text{W}$

Operation temperature:  $-10...+60\text{ }^{\circ}\text{C}$  /  $14...+140\text{ }^{\circ}\text{F}$

T2-IP65 plastic housing two M20 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

## Services

**130R1121** **DrivePro ExWarr Work Shop PG03 30 Month**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**For more information, please use this link to visit the product page on Danfoss Product Store** 

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Services



**130R1120** [🔗](#)

**DrivePro ExWarr Work Shop PG03 24 Month**

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**130R1122** [🔗](#)

**DrivePro ExWarr Work Shop PG03 36 Month**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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**130R1123** [🔗](#)

**DrivePro ExWarr Work Shop PG03 42 Month**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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**130R1126** [🔗](#)

**DrivePro ExWarr Work Shop PG03 60 Month**

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**130R1125** [🔗](#)

**DrivePro ExWarr Work Shop PG03 54 Month**

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**130R1124** [🔗](#)

**DrivePro ExWarr Work Shop PG03 48 Month**

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**Services**

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**130R1127** [🔗](#)**DrivePro ExWarr Work Shop PG03 66 Month**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1128** [🔗](#)**DrivePro ExWarr Work Shop PG03 72 Month**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1024** [🔗](#)**DrivePro ExWarr Onsite PG03 48 Months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1025** [🔗](#)**DrivePro ExWarr Onsite PG03 54 Months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1020** [🔗](#)**DrivePro ExWarr Onsite PG03 24 Months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1022** [🔗](#)**DrivePro ExWarr Onsite PG03 36 Months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

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**Services**

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**130R1021** [🔗](#)**DrivePro ExWarr Onsite PG03 30 Months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1027** [🔗](#)**DrivePro ExWarr Onsite PG03 66 Months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1026** [🔗](#)**DrivePro ExWarr Onsite PG03 60 Months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1028** [🔗](#)**DrivePro ExWarr Onsite PG03 72 Months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1023** [🔗](#)**DrivePro ExWarr Onsite PG03 42 Months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**Services**

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**134H8136** **FC-103P7K5T4E55H1TGC1XXSXXXAXBKXXXXDX**

Frequency converter

FC-103P7K5T4E55H1TGC1XXSXXXAXBKXXXXDX

VLT® Refrigeration Drive FC-103

7.5 KW / 10 HP, Three phase

380 - 480 VAC, IP55 / Type 12

RFI filter Class A1 / B

Safe Stop

Graphical Loc. Cont. Panel

Coated PCB, Mains Disconnect

Latest release std. SW.

No A Option, No B Option

No C1 option, No D option

Frame: A5

Other options according to Model code

**Model code:** FC-103P7K5T4E55H1TGC1XXSXXXAXBKXXXXDX

Whether you want to operate compressors, pumps or fans, the VLT® Refrigeration Drive FC 103 gives you the opportunity to save energy and extend the lifetime of the components.

Image  
coming  
soon**130R1199** **DrivePro Site Assessment**

investments.

DrivePro® Site Assessment is designed by Danfoss Drives to assess and analyze the drives at your site for effective asset management with a view of their maintenance and their lifecycle conditions. This assessment helps you to maintain, plan and take investments to achieve the highest possible reliability and performance.

Our experts visit your site and collect the data on your drives. We evaluate the collected data and help you to have an overview of risk factors in combination of all the parameters visually inspected at site. We give you a report on key facts which would help your management to take decisions on maintenance, planning, renewals and on future investments.

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**For more information, please use this link to visit the product page on Danfoss Product Store** 

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