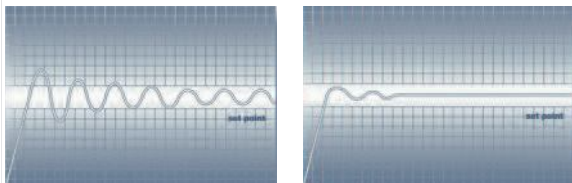


INCUBATORS

TEMPSoft™



For those applications where the monitoring of the sample is extremely important, VELP has developed a line of incubators that offer the possibility of visually examining the contents without interfering with the thermal cycle in progress.



CFCFree

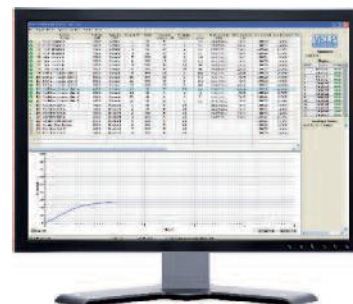
GLP Good Laboratory Practice

Thanks to the **Auto-Tuning thermoregulation system**, VELP Scientifica refrigerated thermostats and incubators ensure **optimum thermal homogeneity** and **stability** at any temperature. The internal temperature is constantly controlled by the software, which continuously compares the detected and set values and aligns them with a **precise and rapid alignment system** developed by VELP.

With the innovative VELP **TEMPSoft™** the user can constantly **control and manage the temperature** of the incubator, through the wireless interface.

- Many aspects can be monitored, related to the temperature:
- Control the set point, and setting minimum and maximum temperature alarm thresholds;
 - Instantly view the trend of the internal temperature on a graph;
 - Automatically record the temperature trend on a spreadsheet;
 - Set working ramps with different temperatures and times;
 - View and record any alarms;
 - Store test data in conformity with GLP.

Data are sent to the Wireless DataBox™ and stored by the software. TEMPSoft™ can be used with the FOC Series.



FTC 120

The **FTC 120** is a medium-size refrigerated thermostat specially designed for incubating BOD measurement units. The BOD measurement unit is powered thanks to two internal sockets and samples are incubated at a **constant temperature** of 20 °C (up to three BOD Sensor System 6 or two BOD Sensor System 10 simultaneously). Forced air circulation ensures a **uniform temperature** inside the incubation chamber. The internal temperature can be constantly monitored through the 2-digit display.

The cooling system in **class A+** ensures top performance with minimum power consumption.

INSTRUMENT

POWER SUPPLY

CODE No

FTC 120

230 V / 50-60 Hz

F10300300



FOC 120E, FOC 215E FOC 120I AND FOC 215I



The **FOC Series** are equipped with the innovative **Auto-Tuning thermoregulation system** for an excellent **stability, homogeneity and uniformity** of the internal temperature. Temperature can be set from 3 to 50 °C, and monitored through the 3-digit display. In addition to these features, **FOC 120I** and **FOC 215I** offer a **transparent internal door** for visual examination of the contents.

The two internal sockets are controlled by an external switch and can be used for the electrical connection of instruments that need to be incubated, including BOD System.

The **maximum capacity** of FOC 120E is up to three BOD Sensor System 6 or two BOD Sensor System 10 simultaneously, whilst for FOC 215E is up to five BOD Sensor System 6 or three BOD Sensor System 10 simultaneously. Due to the internal transparent door, the maximum capacity of the "I versions" is one unit less than the "E versions".

The entire FOC Series can also be connected to a PC using **wireless technology** and be controlled by the dedicated software **TEMPSoft™**.

The cooling system in **class A+** ensures top performance with minimum power consumption.

INSTRUMENT	POWER SUPPLY	CODE No
FOC 120E	230 V / 50-60 Hz	F10300310
FOC 215E	230 V / 50-60 Hz	F10300330
FOC 120I	230 V / 50-60 Hz	F10400320
FOC 215I	230 V / 50-60 Hz	F10400340



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GENERAL FEATURES AND PERFORMANCE

	FTC 120	FOC 120E	FOC 120I	FOC 215E	FOC 215I
TRANSPARENT DOOR			•		•
TEMPERATURE SETTING	20 °C, constant	from 3 to 50 °C	from 3 to 50 °C	from 3 to 50 °C	from 3 to 50 °C
TEMPERATURE STABILITY AND HOMOGENEITY	± 0,5 °C	± 0,5 °C	± 0,5 °C	± 0,5 °C	± 0,5 °C
ELECTRONIC THERMOREGULATION SYSTEM	Traditional	Auto-Tuning	Auto-Tuning	Auto-Tuning	Auto-Tuning
MAXIMUM CAPACITY (IN TERMS OF BOD SYSTEMS)	3 BOD SYSTEM 6 or 2 BOD SYSTEM 10	3 BOD SYSTEM 6 or 2 BOD SYSTEM 10	2 BOD SYSTEM 6 or 1 BOD SYSTEM 10	5 BOD SYSTEM 6 or 3 BOD SYSTEM 10	4 BOD SYSTEM 6 or 2 BOD SYSTEM 10
WIRELESS INTERFACE FOR TEMPSoft™		•	•	•	•
NUMBER OF SHELVES SUPPLIED	2	2	2	4	4
DIMENSIONS (WxHxD) mm (in)	540x912x550 (21.3x35.9x21.7)	540x912x550 (21.3x35.9x21.7)	540x912x550 (21.3x35.9x21.7)	540x1263x550 (21.3x49.7x21.7)	540x1263x550 (21.3x49.7x21.7)
WEIGHT Kg (lb)	36 (79.4)	36 (79.4)	36 (79.4)	46.3 (102.1)	46.3 (102.1)
POWER SUPPLY	230 V	230 V	230 V	230 V	230 V
POWER	120 W	120 W	120 W	400 W	400 W

SUPPLIED WITH

CODE No

Bottom shelf	10005522
Shelf	10005523

OPTIONAL ACCESSORIES

CODE No

TEMPSoft™ *	A00000244 *
IQ/OQ Manual	A00000239
Multi-socket extension cable	A00000221

* including Wireless DataBox™ and cable

FOC 215IL ILLUMINATED INCUBATOR

The **FOC 215IL** is a **multi-function incubator**, applicable to bacteria cultures and fermentation studies, among many other experiments which require constant temperature and lighting.

Light exposure is made by six lines, horizontally mounted on the lower part of each shelf, which illuminate the shelf below.

A dedicated **timer** for the internal lighting enables unattended operation and let you create several operating cycles, with automatic switch off and on.

Auto-Tuning thermoregulation system ensures the most reproducible test conditions. The chamber air is gently and continuously circulated at a rate that ensures temperature uniformity of all test samples.

The **internal transparent door** facilitate real-time observation of the incubated samples.

The cooling system in **class A+** ensures top performance with minimum power consumption.



NITROGEN DETERMINATION

DKL SERIES AND DK SERIES AUTOMATIC DIGESTION UNITS

The fully **automated DKL Series** digester system consists of an aluminum heating block offering **excellent temperature homogeneity, precision and accuracy**; an auto lift and an auto suction cap are supplied as a complete package including test tubes, sample rack and drip tray.

The DKL Series incorporates Velp's revolutionary **TEMS™ technology** for **unprecedented savings** in terms of **Time, Energy** - as much as 35%, **Money and Space**.

DK Series digesters perform Kjeldahl analysis using traditional methods (with no automation).



INSTRUMENT	POWER SUPPLY	CODE No
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FOC215IL	230V/50-60Hz	F10400290
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INSTRUMENT	POWER SUPPLY	CODE No
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DKL 8 *	230 V / 50-60 Hz	S30100200
DKL 8 *	115 V / 50-60 Hz	S30110200
DKL 12 *	230 V / 50-60 Hz	S30100190
DKL 12 *	115 V / 50-60 Hz	S30110190
DKL 20 *	230 V / 50-60 Hz	S30100210
DKL 42/26 *	230 V / 50-60 Hz	S30100180

* DKL Series comes including lift, suction cap, sample rack and test tubes

INSTRUMENT	POWER SUPPLY	CODE No
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DK 6	230 V / 50-60 Hz	F30100182
DK 6	115 V / 50-60 Hz	F30110182
DK 6/48	230 V / 50-60 Hz	F30100188
DK 6/48	115 V / 50-60 Hz	F30110188
DK 8	230 V / 50-60 Hz	F30100020
DK 8	115 V / 50-60 Hz	F30110020
DK 20	230 V / 50-60 Hz	F30100350
DK 20/26	230 V / 50-60 Hz	F30100185
DK 20/26	115 V / 50-60 Hz	F30110185
DK 42/26	230 V / 50-60 Hz	F30100360

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FOC 215IL

TRANSPARENT DOOR	•
TEMPERATURE SETTING	from 3 to 50 °C
TEMPERATURE STABILITY AND HOMOGENEITY	± 0,5 °C
ELECTRONIC THERMOREGULATION SYSTEM	Auto-Tuning
LIGHTING SYSTEM	LED
LUMINOUS FLUX	20 000 lux/shelf
WIRELESS INTERFACE FOR TEMPSoft™	•
NUMBER OF SHELVES SUPPLIED	2 with lights; 1 without
DIMENSIONS (WxHxD) mm (in)	540x1300x550 (21,3x51,2x21,7)
WEIGHT Kg (lb)	50 (110,2)
POWER SUPPLY	230 V
POWER	400 W

GENERAL FEATURES
AND PERFORMANCE