

Technical data 2022

Inventus RC & RF



PORKKA
SCIENTIFIC

Technical data

R290
Refrigerant

Inventus RC RF spark-proof laboratory refrigeration equipment

Inventus RC ja RF research and test cabinets have been designed for laboratories, health care and biosciences.

Standard setups of lockable and easy to clean Inventus RC and RF cabinets include four glass shelves adjustable in 56 mm intervals.

**SPARK
PROOF
INTERIOR**

Features

- Excellent temperature uniformity ($\pm 1^{\circ}\text{C}$) measured from 100 g mass
- Low noise level, under 49 dB(A)
- Control unit with clear numeric display for temperature and other functions
- 12-hour battery backup for control unit's power failure alarm and temperature recording
- Antimicrobial (Nanoksi Fotonit) coated controller keyboard
- Real time temperature recording and USB port for data reading
- Key lock on the control unit
- Recording of maximum and minimum temperature
- Visual and audible high/low temperature alarm
- Door switch for fan control and door open-alarm
- Probe failure alarm
- Readiness for RS485 adapter for computer connection
- Potential free (no voltage) alarm coupling readiness for real estate monitoring
- 50 ml bottle for a temperature sensor P4 inside the cabinet
- Fan assisted air distribution
- Automatic defrost
- Overheat protection (RC)
- Automatic vaporization of condensed water
- Molded eco-friendly polyurethane insulated frame. The insulation thickness is 80-100 mm
- External finish has a white polyester coated sheet steel or stainless steel. Interior finish in stainless steel grade AISI 304
- 4 glass shelves are adjustable in increments of 56 mm
- Abloy lock is placed in front panel for easy maintenance (Abloy Sentry key)
- The self-closing door has a sturdy molded handle, magnetic seal, and durable hinges. The door remains open at a 90 degree angle
- Antimicrobial (Nanoksi Fotonit) coated handle is designed as a solid part of the door
- Stainless steel legs, height adjustable from 130 mm to 205 mm
- Efficient, environmental friendly, energy saving R290 refrigerant
- Electrical supply 230V / 50 Hz



Accessories

- Additional shelves
- Flat bottomed plastic storage box set
- Stainless steel wire basket
- Castors, lockable front castors
- Short stainless steel legs, adjustable from 80 mm to 105 mm
- Door opening pedal
- $\varnothing 8$ mm sleeved access port for additional probe
- LED light (standard in GW models)
- iLOQ lock (Abloy as a standard)

Technical data

Inventus RC RF spark-proof laboratory refrigeration equipment

Inventus			RC 6	RC 8	RC 6 GW	RC 8 GW	RF 6	RF 8
External dimensions	Width	mm	600	850	600	850	600	850
	Depth	mm	760	750	760	750	760	750
	Height	mm	2100	2100	2100	2100	2100	2100
Internal dimensions	Width	mm	404	654	404	654	404	654
	Depth	mm	610	555	610	555	610	555
	Height	liters	1485	1485	1485	1485	1485	1485
Volume (measured according to DIN standard)	Net	liters	331	491	331	491	331	491
	Gross	kg	421	619	421	619	421	619
Weight	Net	kg	132	152	137	157	132	152
Package weight	Gross	mm	142	162	147	167	142	162
Package size	Width	mm	650	900	650	900	650	900
	Depth	mm	800	800	800	800	800	800
	Height	mm	2250	2250	2250	2250	2250	2250
Sound level measured at the distance of 1m / from the height of 1.6 m		dB	49	49	49	49	50	50
Operating temperature		°C	+2...+40 °C	+2...+40°C	+2...+40 °C	+2...+40°C	-32...-15 °C	-32...-15 °C
Ambient temperature		°C	+10...+35 °C	+10...+35 °C	+10...+35 °C	+10...+35 °C	+10...+35 °C	+10...+35 °C
Temperature accuracy		°C	±1	±1	±1	±1	±1	±1
Refrigerant	(g)/GWP	g	R290/115 g (GWP 3)	R290/110 g (GWP 3)	R290/115 g (GWP 3)	R290/110 g (GWP 3)	R290/83 g (GWP 3)	R290/90 g (GWP 3)
Connection Power		kW	0.5	0.5	0.5	0.5	0.65	0.75
Fuse	Slow	A	10	10	10	10	10	10
Voltage		V	230/50 Hz	230/50 Hz	230/50 Hz	230/50 Hz	230V/50Hz	230V/50Hz
Defrost 1. Air 2. Hot gas 3. Electric			1	1	1	1	2	2
Energy consumption		kWh/year						
Energy consumption		kWh/d						
Shelves (width x depth)		mm	400 x 600	650 x 530	400 x 600	650 x 530	400 x 600	650 x 530
Shelf amount standard/maximum		pcs	4 / 14	4 / 24	4 / 24	4 / 24	4 / 24	4 / 24



Inventus RC 6, RF 6



Inventus RC 8, RF 8



Inventus RC 6 GW



Inventus RC 8 GW

Technical data

Inventus RC RF RCF accessories

APF19010	Ø 8 MM SLEEVED ACCESS PORT FOR ADDITIONAL PROBE (ADDITION TO INSTALLATION DEPTH: MODEL 6 +25 MM, MODEL 8 +35 MM)
APF19022	PROBE PT100 TF14 (CABLE 3 M)
APC13010	ANTI-FREEZE PROTECTION (RC)
APC12030	JUNCTION BOX AND CONNECTED ALARM CABLE (2.5 M) WITH RJ45 PLUG
APF19021	CENTRAL ALARM JUNCTION BOX
APC12100	TTL/RS-485 DATA CABLE 0.5 M
APC12300	GROUNDING CABLE
APF19000	ELECTRONIC LOCK iLOQ S10 (INCLUDES ONE KEY)
APM20605	iLOQ S10 ADDITIONAL KEY
APF19001	ELECTRONIC LOCK iLOQ S5+ ONE KEY Further information: www.iloq.com
6300221	iLOQ S5 ADDITIONAL KEY Further information: www.iloq.com
GD1294	STAINLESS STEEL PANEL SHELF 6
APF10650	STAINLESS STEEL WIRE SHELF 6
EF3252	GLASS SHELF 6
EF3097	STAINLESS STEEL BOTTOM WIRE SHELF 6
GD1264	STAINLESS STEEL PANEL SHELF 8
EF3092	STAINLESS STEEL WIRE SHELF 8
EF3251	GLASS SHELF 8
EF3096	STAINLESS STEEL BOTTOM WIRE SHELF 8
APF10970	STAINLESS STEEL WIRE BASKET 8
APF19032	FLAT BOTTOMED PLASTIC STORAGE BOX 6, ONE SHELF SET 150 x 600 x 90 MM (2 PCS)
APF19030	FLAT BOTTOMED PLASTIC STORAGE BOX 8, ONE SHELF SET 230 x 500 x 90 MM (2 PCS) + 150 x 500 x 90 MM (1 PCS)
APF16600	LED LIGHT
APF13800	CASTORS, LOCKABLE FRONT CASTORS WHEN CABINET HEIGHT = 2080 MM
APF13200	SHORT STAINLESS STEEL LEGS, ADJUSTABLE FROM 80 MM TO 105 MM WHEN CABINET HEIGHT = 2050 MM
APF12400	DOOR OPENING PEDAL
APF19040	NANOKSI FOTONIT COATING WITH DISINFECTING LIGHT
APF19041	NANOKSI FOTONIT COATING WITH DISINFECTING LIGHT (GW MODELS)

Technical data

Inventus RC RF RCF accessories



JUNCTION BOX AND CONNECTED ALARM CABLE (2.5 M) WITH RJ45 PLUG



CENTRAL ALARM JUNCTION BOX



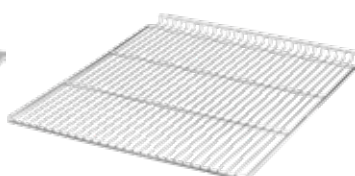
TTL/RS-485 DATA CABLE 0.5 M



iLOQ LOCK



STAINLESS STEEL PANEL SHELF



STAINLESS STEEL WIRE SHELF



GLASS SHELF



STAINLESS STEEL WIRE BASKET 8



FLAT BOTTOMED PLASTIC STORAGE BOX



HYGIENIC ROOFING



LED LIGHT



CASTORS



SHORT STAINLESS STEEL LEGS



DOOR OPENING PEDAL

Technical data

Inventus glass shelves

GLASS SHELVES AMOUNT / CABINET	MAXIMUM STORAGE HEIGHT BETWEEN SHELVES
4 (standard amount)	327 mm
5	215 mm
8	159 mm
12	103 mm
24	47 mm

* Shelf bracket space 56 mm

