

Upright Models

REFRIGERATED INCUBATORS

LABORATORY REFRIGERATED INCUBATORS WITH FORCED-AIR COOLING MODELS CIR-S FROM 0° C TO +60° C

- Recirculation in the chamber with powerful airflow
- PID Microprocessor, control all parameters
- Temperature range from 0° C to +60° C
- Audible and visual independent alarms for maximum temp.
- Digital display for temperature and control parameters with retro-illuminated crystal liquid screen
- Accuracy of +/- 0.1° C, on the display
- Homogeneity of +/- 0.3° C, in the chamber at 40° C
- Stability of +/- 0.3° C, in the chamber at 40° C
- Pt 100 probe for the temperature control

TECHNICAL SPECIFICATIONS FOR MODELS CIR-S AND CIR-S/HR

- All models with internal, thermal safety, glass door
- External solid door, opens 180°, right hand configuration
- On/Off retro illuminate switch
- Touch control panel
- Test periods, over digital timer, free programmable test time
- Internal illumination with separate touch switch
- Alarm sound stop switch, up to reset the selected temperature
- Cable port hole for probes or ext./int. instruments connexions
- Flaps heater in the air stream, in order to achieve a better temperature distribution
- Independent heating and cooling system
- Airflow models with forced cooling system, with horizontal ward distributed uniformly, allow a high homogeneity of the air temperature inside the chamber
- Cooling gas R134a, CFC and HCFC free, biodegradable
- Hermetic compressor, built over dampers, low noise <48dB
- Evaporator with automatic defrost
- External cabinet of steel, epoxy coated
- Internal chamber of stainless steel 18/8 AISI 304;
- Round corners for easy cleaning
- Shelves of stainless steel 18/8 grill type, with height regulation
- Perimetral gaskets, heat resistant, for a perfect closing of the door and tight chamber
- Isolation 60 mm of high density injected polyurethane, CFC and HCFC free
- Feet size adjusts equipment height
- Tropical treatment, to allow work until +38° C working area temperature, with 85-90% R.H.

LABORATORY REFRIGERATED INCUBATORS WITH HUMIDITY CONTROL MODELS CIR-S/HR FROM 0° C TO +60° C [same general specifications as CIR-S]

- Humidity control: working range of 60 to 98% R.H. (+/-3 ° C), in a temperature range from +19° C to +40° C
- Electronic probe for the humidity measurement (4-20 mA) with accuracy of +/-2% (in models CIR-S / HR)
- Humidity generator by ultrasound, introduce in the chamber microscopic water drops at ambient temperature (in models CIR-S / HR)
- Humidity dry system over cooling generator, by condensation (in models CIR-S / HR)
- Models CIR-S / HR, for ICH stability test. More details for this type of special test and the accessories, please on request.

CIR-S 70



0°..+60°
60%..98%

Models	Capacity in Litres	Models	Capacity in Litres	Internal/ External	N° of shelves	Power in W	Comp. HP	Internal Dim. in mm wide x depth x high	External Dim. in mm wide x depth x high	Weight/ Pack net/gross	Vol/Pack m³
CIR-S 70	70	CIR-S 70/HR	60	Stainl. steel /Epoxy	2	300	1/5	420 x 350 x 500	565 x 570 x 960	68/98	0,6
CIR-S 170	170	CIR-S 170/HR	160	Stainl. steel /Epoxy	2	400	1/3	490 x 400 x 750	615 x 645 x 1265	74/124	0,8
CIR-S 250	250	CIR-S 250/HR	240	Stainl. steel /Epoxy	3	550	1/2	500 x 500 x 950	720 x 655 x 1472	80/115	1,0

1 cu ft= 28,3 litres. 1 inch= 25,4 mm.

Upright Models

REFRIGERATED INCUBATORS

LABORATORY REFRIGERATED INCUBATORS SPECIAL DESIGNED FOR DBO MODELS CIR/DBO FROM +4° C TO +55° C

- Air recirculation in the chamber with powerful airflow
- Microprocessor, control all parameters
- Temperature range from +4° C to +55° C
- Security thermostat, protect again over temperature
- Digital display for temp. and control parameters
- Accuracy of +/- 0.1°C, on the display
- Homogeneity of +/- 1,5° C, in the chamber at 37° C
- Stability of +/- 0.4° C, in the chamber at 37° C
- Pt 100 probe for the temperature control
- Cooling system control by electro valves
- External body of in steel, epoxy coated
- Internal chamber of ABS (post formed polypropylene)
- Security lock on the door with keys
- Glass door with opening aids and big sized handle (optional solid door)
- Internal electrical plug (power supply), for connexion of equipments inside the chamber
- Feet size adjusts equipment height
- Tropical treatment, to allow work until +38° C working area temperature, with 85-90% R.H.

OPTIONAL ACCESSORIES for all CIR-S, CIR-S/HR AND CIR/DBO Models

- Audible and visual alarms for max. and min. temp., also for probe and power failures; with battery back-up
- Temperature and /or humidity circular chart recorder 7 days, main powered with independent battery back-up
- Indication for door open, with audible and visual alarms
- Main power switch, key protected
- Remote control interface connection RS 485/232
- Potential free out put for remote alarm control
- Data loggers
- Test period program over digital timer
- Base with 4 wheels, for easy movement
- Security lock on the door with keys
- Additional port holes for external instruments
- Internal electrical plug (power supply), for connexion of equipments inside the chamber
- UV light tubes for sterilization
- Fulfilments of the stability test ICH norm, according customer requirements



CIR/DBO 132 C



CIR-S 150/HR
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+4°..+55°

0°..+60° 60%..98%

Models	Capacity in Litres	Internal/ External	N° of shelves	Power in W	Compressors HP	Internal Dimensions in mm wide x depth x high	External Dimensions in mm wide x depth x high	Weight/ Pack net/gross	Vol/Pack m³
CIR/DBO 132 C	132	ABS/Epoxy	2	300	1/5	445 x 440 x 785	550 x 620 x 1100	32/35	0,3
CIR/DBO 273 C	273	ABS/Epoxy	4	350	1/3	510 x 440 x 1300	595 x 600 x 1650	85/91	0,6
CIR/DBO 333 C	333	ABS/Epoxy	5	450	1/3	510 x 440 x 1500	595 x 600 x 1850	94/110	0,7

1 cu ft= 28,3 litres. 1 inch= 25,4 mm.

Note: "We reserve the right to make any changes without previous information"



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LABORATORY MULTI PURPOSES REFRIGERATED INCUBATORS WITH FORCED-AIR COOLING MODELS CIR FROM +4° C TO +55° C

- Forced-air recirculation in the chamber with powerful ventilator
- Microprocessor, control all parameters with Fuzzy logic, ensure a high temperature stability
- Temperature range from +4° C to +55° C (from +4° C to +45° C in model CIRP 500*)
- Security thermostat, protect again over temperature
- Digital display for temperature and control parameters
- Accuracy of +/- 0.1°C, on the display
- Homogeneity of +/- 1,5° C, in the chamber at 37° C
- Stability of +/- 0.4° C, in the chamber at 37° C
- Pt 100 probe, type A, for the temperature control

TECHNICAL SPECIFICATIONS FOR MODELS CIR AND CIR/HR

- Solid door with opening aids and big size handle
- Two side open door right or at left opening available (pls indicate at the order, factory adjustment)
- Security lock on the door with keys
- On/Off retro illuminate switch
- Models with big volume ventilator in the chamber, forced air-flow recirculation, distributed uniformly upward, warranty a high homogeneity of the temperature inside the chamber
- Pt 100, type A, probe for the temperature control with resolution of 0,1° C
- Cooling gas R134a, CFC and HCFC free, biodegradable
- Hermetic compressor, built over dampers, low noise <48dB
- Cooling system control by electro valves, improve the temperature stability
- Evaporator with automatic defrost
- Internal body of stainless steel 18/8 AISI 304 (except mod. CIRP 500)
- External body of stainless steel 18/8 AISI 304 (except mod. CIRP 500)
- For model CIRP 500: external body in steel Epoxy coated. Internal chamber of ABS (post formed polypropylene)
- Round corners for easy cleaning
- Internal shelves, height regulated, grill type, made of coated steel wire
- Perimeter gasket, heat resistant, for a perfect closing of the door
- Isolation 60 mm of high density injected polyurethane, CFC and HCFC free
- Feet size adjusts equipment height
- Tropical treatment, to allow work until +38° C working area temp., with 85-90% R.H.



CIR 1322



CIRP 500

+4°...+55°

Models CIR	Capacity in Litres	Internal/ External	N° of shelves	Power consume in W*	Compressors HP	Internal Dimen. in mm wide x depth x high	External Dimen. in mm wide x depth x high	Weight/ Pack net/gross	Vol./Pack m³
CIRP 500*	491	ABS/Epoxy	5	710	1/3	652 x 537 x 1338	752 x 710 x 1516	120/140	1.3
CIR 322	322	Stainless Steel	3	400	1/4	482 x 450 x 1392	600 x 637 x 1981	100/110	0.9
CIR 452	452	Stainless Steel	3	910	1/2	582 x 550 x 1392	700 x 707 x 1981	115/130	1.2
CIR 612	612	Stainless Steel	4	950	3/8	582 x 687 x 1487	700 x 819 x 2075	120/140	1.5
CIR 982	982	Stainless Steel	3	950	3/8	1282 x 550 x 1392	1400 x 707 x 1981	170/200	2.3
CIR 1322	1322	Stainless Steel	4	1100	1 1/4	1282 x 687 x 1487	1400 x 819 x 2075	200/230	2.7

1 cu ft= 28,3 litres. 1 inch= 25,4 mm.

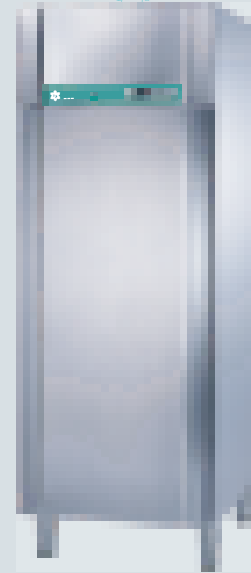
*Note: Models with polypropylene internal chambers, maximal working temperature +45° C

LABORATORY MULTI PURPOSES REFRIGERATED INCUBATORS WITH FORCED-AIR COOLING AND HUMIDITY CONTROL MODELS CIR/HR FROM +4° C TO +55° C

- Humidity control: working range of 60 to 98% R.H. (+/-3 ° C), in a temperature range from +19° C to +40° C
- Ventilation of the chamber with powerful air-flow
- Microprocessor, control all parameters with Fuzzy logic, ensure a high temperature stability
- Temperature range from +4° C to +55° C (from +4° C to +45° C in model CIRP 500*)
- Digital display for temperature and control
- Accuracy of +/- 0.1°C, on the display
- Homogeneity of +/- 1,5° C, in the chamber at 37° C
- Stability of +/- 0.4° C, in the chamber at 37° C
- Pt 100 probe, type A, for the temperature control
- Electronic probe for the humidity measurement (4-20 mA) with accuracy of +/-2% (in models CIR/ HR)
- Humidity generator by ultrasound, introduce in the chamber microscopic water drops at ambient temperature (in models CIR HR)
- Humidity dry system over cooling generator, by condensation (in models CIR/HR)
- Models CIR/HR, for ICH stability test. More details for this type of special test and the accessories, please on request.

OPTIONAL ACCESSORIES for all CIR AND CIR/HR Models

- Audible and visual independent alarms for maximum and minimum temperature, also alarms for probe and power failure; supported with battery back-up
- Indication for door open, with audible and visual alarms
- Main power switch, key protected
- Alarm sound stop switch, key protected, up to reestablishment of the selected temperature
- Temperature and /or humidity circular chart recorder 7 days, battery back-up
- Printer for temperature and /or humidity record or data loggers
- Remote control interface connection RS 485/232
- PC software communication on request
- Potential free out put for alarm remote control
- Test periods to program over digital timer
- UV light tube for sterilization
- Lock code protection of the control panel by numerical password
- Base with 4 wheels, for easy movement
- Internal electrical plugs (power supply) inside the chamber
- Port holes for external instruments
- Glass door, only for models CIR, without humidity control (in models CIR/HR is not available glass door)
- Fulfilments of the stability test ICH norm, according customer request



CIR 612/HR



CIR 1322/HR

+4°..+45°
60%..98%

Models CIR/HR	Capacity in Litres	Internal/ External	N° of shelves	Power consume in W*	Compressors HP	Internal Dimen. in mm wide x depth x high	External Dimen. in mm wide x depth x high	Weight/ Pack net/gross	Vol/Pack m³
CIRP 500 HR*	491	ABS/Epoxy	5	710	1/3	652 x 537 x 1338	752 x 710 x 1516	120/140	1.3
CIR 322 HR	322	Stainless Steel	3	400	1/4	482 x 450 x 1392	600 x 637 x 1981	100/110	0.9
CIR 452 HR	452	Stainless Steel	3	910	1/2	582 x 550 x 1392	700 x 707 x 1981	115/130	1.2
CIR 612 HR	612	Stainless Steel	4	950	3/8	582 x 687 x 1487	700 x 819 x 2075	120/140	1.5
CIR 982 HR	982	Stainless Steel	3	950	3/8	1282 x 550 x 1392	1400 x 707 x 1981	170/200	2.3
CIR 1322 HR	1322	Stainless Steel	4	1100	1 1/4	1282 x 687 x 1487	1400 x 819 x 2075	200/230	2.7

1 cu ft= 28,3 litres. 1 inch= 25,4 mm.

*Note: Models with polypropylene internal chambers, maximal working temperature +45° C