



INCU-Line® IL 150R PREMIUM cooled incubator

**COOLED INCUBATORS, INCU-LINE® IL 150R/250R PREMIUM**

These compressor-cooled incubators provide a temperature range between 3 to 70 °C with forced air convection and fan speed control (50 - 100%). Featuring a stainless steel (DIN 1.4016) inner chamber and stainless steel linen finish exterior. The PREMIUM models have an intuitive menu and user friendly software, USB port with flash drive for data download to USB stick and for uploading programs. They can be connected to Ethernet or Wi-Fi network for remote control from any computer and users can receive notifications about selectable parameters via e-mail.

- Multi-functional microprocessor controller with 7" full colour touch screen, gives overview of set and current parameters while running
- Access control via password login and administrator function to manage 5 user accounts
- 40 user-program memory, quick and easy change of parameters during a running program
- Multi-segment temperature/time profile (up to 100) with adjustable ramps
- Timer from 1 minute up to 366 days or continuous operation
- Adjustable start delay feature and loop function
- Adjustable over- and under-temperature safety thermostat Class 3.3 (DIN 12880) protects samples and the incubator
- Environmental friendly refrigerant (R1234ze) with a very low global warming potential (GWP is 1)

Both models have a solid outer door and an internal glass door. They are equipped with 30 mm access port, door lock, internal LED light and internal socket (230V, 50Hz, IP 54) for EU plugs (can be changed to a UK or CH plug version). The IL 150R models are stackable without additional stacking kit, other models are not stackable.

Safety features include audible and visible temperature alarms, power failure control system, defrosting function, open door alarm, temperature sensor fail alarm and auto-diagnostic function.

Units feature Premium Control Software and aid GLP compliance with password protection settings, events registry and an internal memory which stores up to 10000 data records for each user (stored for a maximum of 12 months). Users can overview the values on the display or a PC in tabular or graphic form.

Models are supplied with two or three (IL 250R) stainless steel wire shelves, one bottom wire shelf, keys to the lock (2 pcs), manufacturer test certificate at 37 °C, Ethernet cable, multilingual instruction manual and Premium Control Software (can be downloaded from internal memory onto USB stick).

Model	IL 150R PREMIUM	IL 250R PREMIUM
Temperature range (°C)	3...70	
Temperature fluctuation (time) (°C)	±0,2 at 37 °C	±0,3 at 37 °C
Temperature variation (spatial) (°C)	±0,8 at 37 °C	±1,0 at 37 °C
Capacity (l)	143	245
Convection type	Forced convection	
Max. load per shelf (kg)	10	
Max. chamber capacity (kg)	30	50
Int. WxDxH (mm)	520x410x660	520x410x1060
Ext. WxDxH (mm)	620x650x920	620x650x1320
Nominal power consumption (W)	250	
Weight (kg)	70	89
No. of shelves	3 (4)	4 (6)

Type	Pk	Cat. No.
INCU-Line® IL 150R PREMIUM cooled incubator	1	390-1338
INCU-Line® IL 250R PREMIUM cooled incubator	1	390-1339

Description	For	Pk	Cat. No.
<b>Perforated shelves</b>			
Stainless steel perforated shelf, with slides set, 479x387 mm, max shelf workload: 10 kg	IL 150R / 250R	1	390-1355
<b>Reinforced shelves</b>			
Stainless steel reinforced shelf, with slides set, 479x387 mm, max shelf workload: 20 kg	IL 150R / 250R	1	390-1369
<b>Accessories</b>			
Spare stainless steel shelf	IL 150R/IL 250R PREMIUM	1	390-1340



INCU-Line® IL 240CR PREMIUM cooled incubator

**COOLED INCUBATORS, INCU-LINE® CR PREMIUM**

These compressor-cooled incubators provide a temperature range between -10 to +100 °C with forced air convection and fan speed control (10 - 100%). Featuring a stainless steel (DIN 1.4301) inner chamber and a powder coated sheet exterior. The PREMIUM models have an intuitive menu and user friendly software, USB port with flash drive for data download to USB stick and for uploading programs. They can be connected to Ethernet or Wi-Fi network for remote control from any computer and users can receive notifications about selectable parameters via e-mail.

- Multi-functional microprocessor controller with 7" full colour touch screen, gives overview of set and current parameters while running
- Access control via password login and administrator function to manage 5 user accounts
- 40 user-program memory, quick and easy change of parameters during a running program
- Multi-segment temperature/time profile (up to 100) with adjustable ramps
- Timer from 1 minute up to 366 days or continuous operation
- Adjustable start delay feature and loop function
- Adjustable over- and under-temperature safety thermostat Class 3.3 (DIN 12880) protects samples and the incubator
- Environmental friendly refrigerant (R290) with a very low global warming potential (GWP is 3)

All models have a solid outer door and an internal glass door. The larger IL 400CR and IL 750CR models have double outer doors. All models are equipped with castors (2 with brakes), 30 mm access port, internal light and door lock.

Safety features include audible and visible temperature alarms, power failure control system, defrosting function, open door alarm, temperature sensor fail alarm and auto-diagnostic function.

Units feature Premium Control Software and aid GLP compliance with password protection settings, events registry and an internal memory which stores up to 10000 data records for each user (stored for a maximum of 12 months). Users can overview the values on the display or a PC in tabular or graphic form.

The standard shelves have a maximum workload of 25 kg per shelf. The reinforced stainless steel shelves (optional for IL 240CR and IL 400CR) have a maximum workload of 100 kg per shelf. Please note the maximum chamber capacity as shown in the specification.

All models are supplied with test certificate (data measured at 37 °C), Ethernet cable, keys to the lock (2 pcs), Multilingual instruction manual and Premium Control Software (can be downloaded from internal memory on USB Stick). The IL 750CR models are supplied with three reinforced stainless steel wire shelves, the IL 240CR and IL 400CR models are supplied with three standard stainless steel wire shelves.

Model	IL 240CR PREMIUM	IL 400CR PREMIUM	IL 750CR PREMIUM
Temperature range (°C)		-10...+100	
Temperature fluctuation (time) (°C)		±0,2 at 37 °C	
Temperature variation (spatial) (°C)		±0,3 at 37 °C	
Capacity (l)	245	424	749
Convection type	Forced convection		
Shelves supplied (max.)	3 (10)	3 (14)	3 (16)
Max. load per shelf (kg)	25 (standard shelf)		
Max. chamber capacity (kg)	90	120	140
Ext. WxDxH (mm)	820x760x1430	1040x740x1650	1260x860x1820
Nominal power consumption (W)	800	1200	1800
Weight (kg)	140	179	253
Int. WxDxH (mm)	600x510x800	800x510x1040	1040x600x1200

Type	Pk	Cat. No.
INCU-Line® IL 240CR PREMIUM cooled incubator	1	390-1335
INCU-Line® IL 400CR PREMIUM cooled incubator	1	390-1336
INCU-Line® IL 750CR PREMIUM cooled incubator	1	390-1337

Description	For	Pk	Cat. No.
<b>Perforated shelves</b>			
Stainless steel perforated shelf, with slides set, 590x470 mm, max shelf workload: 25 kg	IL 240CR / IL 240PR	1	390-1356
Stainless steel perforated shelf, with slides set, 790x470 mm, max shelf workload: 25 kg	IL 400CR	1	390-1361
Stainless steel perforated shelf, with slides set, 1032x570 mm, max shelf workload: 25 kg	IL 750CR	1	390-1362

Description	For	Pk	Cat. No.
<b>Reinforced shelves</b>			
Reinforced stainless steel wire shelf, with slides set, 590x470 mm, max. shelf workload: 100 kg	IL 240PR/IL 240CR Premium cooled incubator	1	390-1035
Reinforced stainless steel wire shelf, with slides set, 1030x560 mm, max. shelf workload: 100 kg	IL 400CR Premium cooled incubator	1	390-1036
Reinforced stainless steel wire shelf, with slides set, 1030x560 mm, max. shelf workload: 100 kg	IL 750CR Premium cooled incubator	1	390-1037
<b>Accessories</b>			
Stainless steel wire shelf, with slides set, 590x470 mm, max. shelf workload: 25 kg	IL 240PR/IL 240CR Premium cooled incubator	1	390-0967
Stainless steel wire shelf, with slides set, 790x470 mm, max. shelf workload: 25 kg	IL 400CR Premium cooled incubator	1	390-0968



INCU-Line® Peltier cooled incubator open

**COOLED INCUBATORS WITH PELTIER TECHNOLOGY, INCU-LINE® ILPR PREMIUM SERIES**

Cooled incubators with Peltier technology feature excellent temperature stability and uniformity. They are energy efficient and environmentally friendly, with a low noise level, and they work almost vibration-free as no compressor is installed. No dehumidification of samples due to the closed chamber. These models with forced air convection provide a temperature range between 0 to +70 °C (max. 20 °C below ambient), feature a stainless steel (DIN 1.4301) inner chamber and stainless steel housing, solid outer door and internal glass door. The PREMIUM models have an intuitive menu and user friendly software, USB port with flash drive for data download to USB stick and for uploading programs. They can be connected to Ethernet or Wi-Fi network for remote control from any computer and users can receive notifications about selectable parameters via e-mail.

- Multi-functional microprocessor controller with 7" full color touch screen, gives overview of set and current parameters while running
- Access control via password login and administrator function to manage 5 user accounts
- 40 user-program memory, quick and easy change of parameters during a running program
- Multi-segment temperature/time profile (up to 100) with adjustable ramps
- Timer from 1 minute up to 366 days or continuous operation
- Adjustable start delay feature and loop function
- Adjustable over- and under-temperature safety thermostat Class 3.3 (DIN 12880) protects samples and the incubator

All models have a solid outer door and an internal glass door. They are equipped with 30 mm access port, door lock, internal LED light. INCU-Line IL 56PR and IL 112PR models are stackable as 2x IL 56 PR or 2x IL 112PR without additional stacking kit, it is possible to place the IL 56PR on top of the IL 112PR. The IL 240PR models are not stackable.

Safety features include audible and visible temperature alarms, power failure control system, open door alarm, temperature sensor fail alarm and auto-diagnostic function.

Units feature Premium Control Software and aid GLP compliance with password protection settings, events registry and an internal memory which stores up to 10000 data records for each user (stored for a maximum of 12 months). Users can overview the values on the display or a PC in tabular or graphic form.

The standard spare shelves have a maximum workload of 25 kg per shelf. The optional reinforced stainless steel shelves for IL 240PR units have a maximum workload of 100 kg per shelf. Maximum chamber load is shown in the specification.

Models are supplied with two or three (IL 240PR) stainless steel wire shelves, keys to the lock (2 pcs), manufacturer test certificate at 37 °C, Ethernet cable, multilingual instruction manual and Premium Control Software (can be downloaded from internal memory onto USB stick)

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Model	IL 56PR	IL 112PR	IL 240PR
Temperature range (°C)	0...+70 (max. 20 °C below ambient)		
Temperature fluctuation (time) (°C)	±0,1 at 37 °C		
Temperature variation (spatial) (°C)	±0,2 at 37 °C		
Capacity (l)	56	112	245
Convection type	Forced convection		
Shelves supplied (max.)	2 (5)	2 (7)	3 (10)
Max. load per shelf (kg)	25		
Max. chamber capacity (kg)	50		
Int. WxDxH (mm)	400x350x390	460x440x540	600x510x800
Ext. WxDxH (mm)	590x690x710	650x780x850	810x840x1140
Nominal power consumption (W)	500	600	1000
Weight (kg)	52	70	115

Type	Pk	Cat. No.
INCU-Line® IL 56PR Peltier cooled incubator	1	390-1351
INCU-Line® IL 112PR Peltier cooled incubator	1	390-1352
INCU-Line® IL 240PR Peltier cooled incubator	1	390-1353

Description	For	Pk	Cat. No.
<b>Perforated shelves</b>			
Stainless steel perforated shelf, with slides set, 590x470 mm, max shelf workload: 25 kg	IL 240CR / IL 240PR	1	390-1356
Stainless steel perforated shelf, with slide set, 392x310 mm, max shelf workload: 25 kg	IL 56 / DL 56 / VL 56 / IL 56PR	1	390-1365
Stainless steel perforated shelf, with slides set, 455x412 mm, max shelf workload: 25 kg	IL 112 / DL 112 / VL 112 / IL 112PR	1	390-1366
<b>Reinforced shelves</b>			
Stainless steel reinforced shelf, with slides set, 392x310 mm, max shelf workload: 50 kg	IL 56 / DL 56 / VL 56 / IL 56PR	1	390-1370
Stainless steel reinforced shelf, with slides set, 455x412 mm, max shelf workload: 50 kg	IL 112 / DL 112 / VL 112 / IL 112PR	1	390-1371
Stainless steel reinforced shelf with slides set, 590x470 mm, max. shelf workload: 100 kg	IL 240PR /IL 240CR Premium cooled incubator	1	390-1035
<b>Accessories</b>			
Stainless steel wire shelf, with slides set, 392x310 mm, max. shelf workload: 25 kg	DL/VL/IL/ILPR 56	1	466-0454
Stainless steel wire shelf, with slides set, 455x412 mm, max. shelf workload: 25 kg	DL/VL/IL/ILPR 112	1	466-0455
Stainless steel wire shelf, with slides set, 590x470 mm, max. shelf workload: 25 kg	IL 240PR/IL 240CR Premium cooled incubator	1	390-0967

## Avantor Services



# IQ/OQ/PQ for VWR® ovens and incubators

Giving you the confidence and proof that your laboratory equipment performs reliably and to specification. Validation is done by trained and authorised VWR service engineers:

- Installation qualification (IQ): To verify that the system has been installed to manufacturer's requirements
- Operational Qualification (OQ): All functions of the equipment being validated are tested, results recorded and pass/fail of all tests determined by comparing results with pre-determined acceptance limits
- Performance qualification (PQ): The functions of the equipment are tested with loaded chamber to customers specification



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