

# Refrigerator Series Pharmaceutical Refrigerators

MPR-215F-PE / MPR-414F-PE



## Pharmaceutical Refrigerators with built-in freezer MPR-215F-PE / MPR-414F-PE

With the growing emphasis on proper storage of laboratory refrigerated products the market requires state-of-the-art equipment to provide uncompromised parameter control and performance. Panasonic pharmaceutical refrigerators been purpose designed to deliver outstanding stability and uniformity for temperature sensitive samples.

### User friendly design Safe storage

- Microprocessor control system provides accurate temperature.
- Fan-forced air circulation system (refrigerator) offers fast recovery of temperature and better uniformity.
- Unique cycle defrost system prevents temperature rising by shorter defrost cycles which activate after each compressor cycle.
- Various safety systems such as high/low temperature audible and visual alarms, remote alarm, door ajar alarm and keyed door locks.

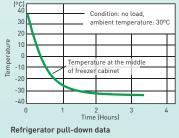
#### Usability

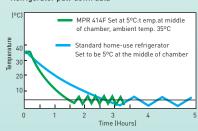
- One unit with dual temperature zone needs only minimal installation space.
- Four-door design reduces air loss during door opening and makes efficient use of space in front of unit. (MPR-414F-PE)
- Triple-pane (MPR-414F-PE) or double-pane (MPR-215F-PE)
  - windows with heat reflection film reduce condensation.
- Zero adjustment through control panel and optional recorder provide easier validation service.

#### Quiet operation

• Two specially designed compressors offer quiet operation.

#### Freezer pull-down characteristics







R = Remote alarm			1 SEPTIMENT !
MODEL		MPR-215F-PE	MPR-414F-PE
Dimensions			
Exterior (W x D x H)	mm	540 x 557 x 1794	800 x 465 x 1800
Interior (W x D x H)	mm	455 x 466 x 917 (Ref)	720 x 495 x 1425 (Ref)
		420 x 342 x 267 (Frz)	317 x 440 x 576 (Frz)
Effective capacity	litres	176/39 (Ref/Frz)	340/82 (Ref/Frz)
Weight	kg	80	126
Construction			
Exterior finish		Polyester resin finish baked on zinc galvanized steel	
Interior finish		Styrol resin/Painted aluminium plate (Ref/Frz)	
Outer doors	qty	2	4
Shelves	qty	3/1 (Ref/Frz)	2 large & 3 small/1 (Ref/Frz)
- max. load/shelf	kg	20/10 kg (Ref/Frz)	25 & 15 kg/15 kg (Ref/Frz)
Castors	qty		4
Access port	qty	2	
- position		1 left/1 left (Ref/Frz)	
- diameter	Ø mm	30	
Refrigeration & Temperature			
Insulation		CFC-free rigid polyurethane foamed-in-place	
Cooling method		Fan forced air circulation (Ref) Direct cooling (Frz)	
Refrigerant		HFC	
Temperature control range	°C		2 ~ 14 (Ref) / -20 ~ -30 (Frz)
		(AT: +30°C no-load)	(AT: +35°C no-load)
Temperature sensor		Thermistor	
Temperature control		Microprocessor	
Alarms		High/Low temperature, power failure,	
		door open	
		Remote alarm contact	
		DC 3	0V, 2A
Temperature display			
		Digita	al LED
Options			
Temperature recorders		MTR-0621LH-PE	
- Temperature chart recorder		MTR-06	ZILH-PE
(-6°C to +20°C)		DD 07 DW	
- Chart paper		RP-06-PW	
- Recorder housing		MPR-S30-PW	
- Circular temp. chart recorder		MTR-G3504C-PE	
(-10°C to +40°C)		PD C250/ DW	
- Chart paper		RP-G3504-PW PG-RB-PW	
- Ink pen		MPR-S7-PW	
- Recorder housing		MPR-5/-PW MTR-4015LH-PE	
- Continuous strip type (-40°C to +14°C)		MIK-4UI5LH-PE	
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<ul><li>Chart paper</li><li>Recorder housing</li></ul>		RP-40-PW MPR-S30-PW	
RS485 interface module		MPR-53U-PW MTR-480-PW	
Drawers for bottom left		IVI I K-2	MPR-41R-PW
compartment			IVII I\-41F\-F VV
compartment			

