



**GEA**

# Medical Refrigeration



- Vaccine Cooler / Freezer*
- Ice-lined Refrigerator*
- Low Temp. Freezer*
- Ultra Low Temp. Freezer*
- Solar System Vaccine Cooler*
- Pharmaceutical Refrigerator*
- Laboratories Refrigerator / Freezer*



# Vaccine Cooler / Freezer



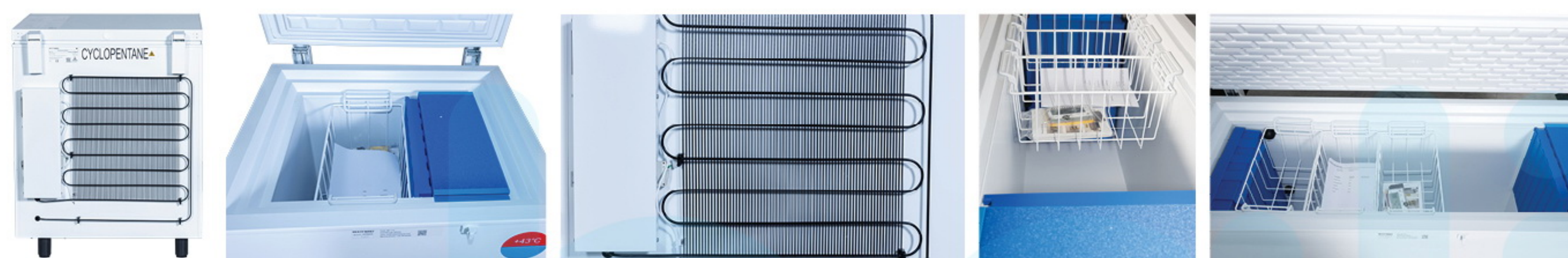
## Vaccine / Ice Pack Freezer



MF114

MF214

MF314



### Features

- Extra compartment for icepack freezing
- External cabinet and inner liner pre-painted galvanized steel
- Danfoss compressor; suitable for use in the tropics
- 220/240V 50/60Hz
- Integrated voltage stabilizer
- Self-regulating cooling system
- Baskets for organized storage
- Solid lid with handle and lock
- Evaporator tubing zinc coated
- Temperature range -15 ~ -25°C
- Hold-over time: 2,8 ~ 4 hrs
- Natural refrigerant R600a

TYPE	DIMENSION (cm)			ICE PACK CAPACITY		GROSS Volume	WHO PQS CODE	BASKET (pcs)	WATT (220V/1P/50Hz)	REFR.	NW/GW (kg)
	L	D	H	Freezing	Storage (L)						
MF114	72	70	91	7,2 kg/24 h	64x0,6	105	E003/024	2	110W/0,8A	R600a	54/69,9
MF214	112	70	91		160x0,6	171	E003/025	2	110W/0,8A	R600a	71,3/93
MF314	156	70	91		256x0,6	281	E003/023	3	130W/1,0A	R600a	80/117,2

## Combined Icelined Refrigerator/ Icepack Freezer



Combined Ice-lined vaccine refrigerator and icepack freezer. This sustainable model constructed with hydrocarbon refrigerant, cyclopentane insulation and recyclable components, has a built-in heating element ensuring that the appliance can maintain stable temperatures between +2°C to +8°C in all ambient temperatures, setting a new industry standard beyond the PQS requirement of +5°C to +43°C.



### Features

- WHO PQS code E003/070
- Hold-over time: 45 hrs
- Digital temperature display
- Integrated voltage stabilizer
- Suitable for hot climate zone
- Grade A freeze protection
- Corrosion resistant materials
- 220/240V 50/60Hz
- Self-regulating cooling system
- Basket, Lock, legs
- CE certificate
- Refrigerant R600a

TYPE	DIMENSION (cm)			COOLER VOL. (L)		ICEPACK CAPAC.		WATT (220V/1P/50Hz)	BASKET	NW/GW (kg)
	L	D	H	Gross	Nett	Storage	Freezing			
VLS 064A RF AC	72	70	91	75	52,5	6 x 0,6 L	1,6kg/24h	150W/0,8A	1 pcs	79/104,5

# Icelined Refrigerator

by **VESTFROST SOLUTIONS** **GREEN IRL TECHNOLOGY** **W.H.O. APPROVED**



This sustainable model constructed with recyclable components, has a built-in heating element ensuring that the appliance can maintain stable temperatures between +2° to +8°C in all ambient temperatures, setting a new industry standard beyond the PQS requirement



### Features

- W.H.O. Approved PQS
- Grade A freeze protection
- Self-regulating cooling system
- Temperature range +2° to +8°C
- Integrated voltage stabilizer
- Hold-over time up to ± 54 hrs
- Basket, Lock + keys
- 220/240V 50/60Hz
- Digital temperature display
- Corrosion resistant materials
- 0,57-0,67 kWh/24 hrs at 43°C AMB
- CE and CB certification
- Refrigerant R600a



**GRADE A  
FREEZE  
PROTECTION  
NO RISK OF  
FREEZING THE  
VACCINE**

TYPE	DIMENSION (cm)			VOL. (L)		WATT (220V/1P/50Hz)	WHO PQS CODE	BASKET Top+Bot- tom	NW/GW (kg)
	L	D	H	Gross	Nett				
VLS 204A AC	72	70	91	113	60	150W/0.8A	E003/109	2+1 pcs	91,4/116,4
VLS 304A AC	92	70	91	157	98	150W/0.8A	E003/110	3+1 pcs	104,8/132,2
VLS 354A AC	112	70	91	209	127	150W/0.8A	E003/111	4+3 pcs	118,4/148,4
VLS 404A AC	126	70	91	235	145	150W/0.8A	E003/112	4+3 pcs	127,2/159
VLS 504A AC	156	70	91	314	242	150W/0.8A	E003/113	6+4 pcs	172/193,7

# Solar Direct Driven Vaccine Refrigerator

by **VESTFROST SOLUTIONS**

The appliance can maintain stable temperatures between +2° to +8°C in all ambient temperatures, included solar panel kit of 2 x 180W, is connected plug & play, directly to the appliance. The VLS SDD has an integrated safety thermostat, and junction box to safeguard and provide easy access to electrical components.



### Features

- Grade A freeze protection
- Natural refrigerant R600a
- Self-regulating cooling system
- Digital thermometer
- 100% battery free, no contribution to global warming
- Autonomy as per PQS protocols hour : 81,7 / 72,4
- Temperature range: +2°C to +8°C
- Corrosion resistant materials
- Plug & Play solar panel system
- Basket, Lock, Legs
- CE and CB certification
- Refrigerant R600a

TYPE	DIMENSION (cm)			VOLUME (L)		MIN SOLAR RAD. (kWh/M2/day)	Voltage	WHO PQS CODE	BASKET	NW/GW (kg)
	L	D	H	Gross	Nett					
VLS 024 SDD	55	65	95	33	25,5	3,5	18DC	E003/069	1 pcs	52,8/67,8
VLS 054A SDD	72	70	91	108	55,5	3,5	12DC	E003/106	1 pcs	85/110,5

# Solar Direct Driven Vaccine Refrigerator and Icepack Freezer



W.H.O. APPROVED

by **VESTFROST SOLUTIONS**



VLS 056 RF SDD

### Features

- PQS E003/092
- Refrigerator with Grade A Freeze Protection
- Self-regulating cooling system
- 100% battery free
- Plug & Play solar panel system
- Integrated ice-bank technology
- Reliable storage for vaccines
- Suitable for hot climate zone
- 4 x 180W Solar Panels
- Autonomy: 72 hrs
- Lock, Basket, Leg
- Integrated safety thermostat, and junction box to safeguard and provide easy access to electrical components.
- CB & CE Certificate



4 x 180W Solar Panels

Temperature range at 43°C AMB  
Cooler : +2 ~ +8°C Freezer : -14 ~ -16°C

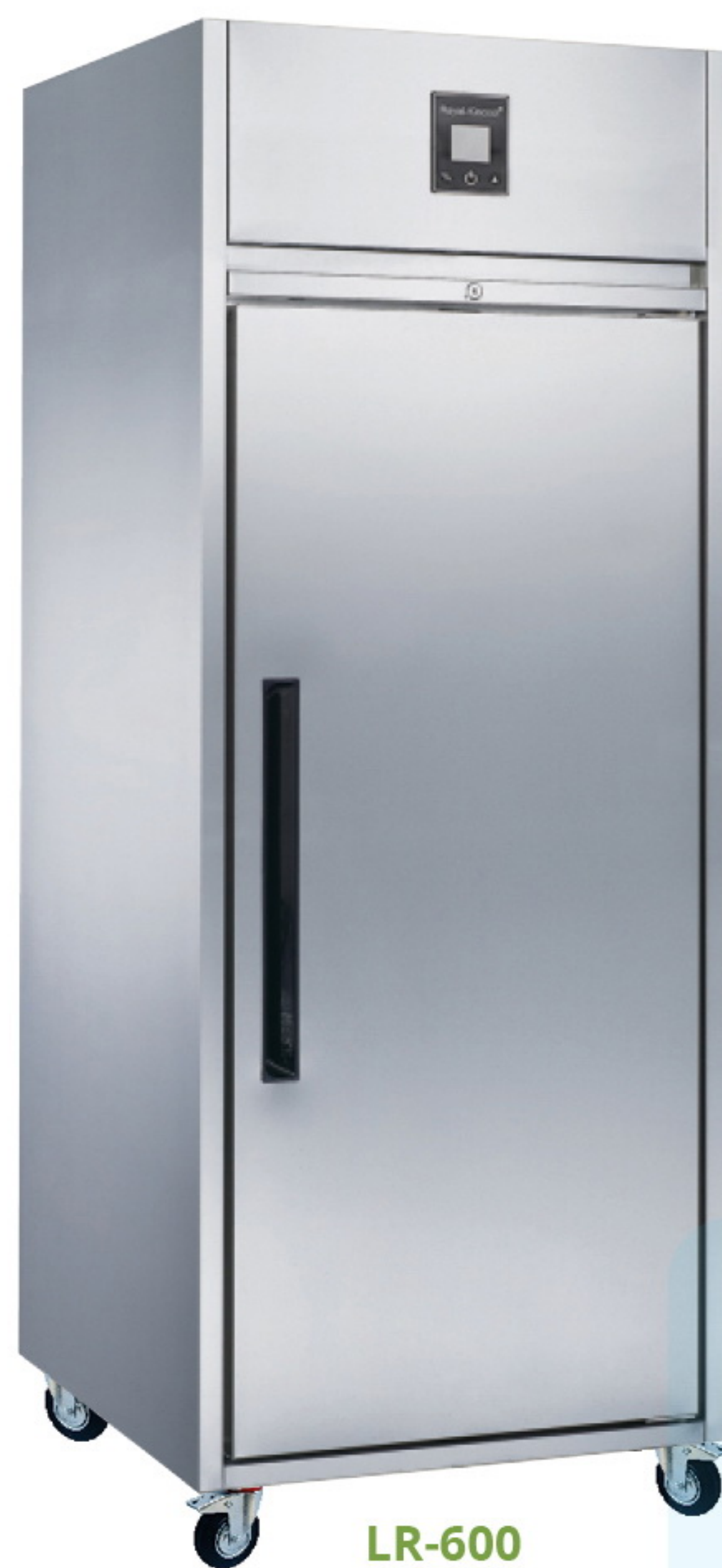
### 2 INDEPENDENT SYSTEMS



TYPE	DIMENSION (cm)			VOLUME (L)		WATER FREEZING CAPACITY	WATER PACK CAPAC.	VOLTAGE	REFRIG.	NW/GW (kg)
	L	D	H	Nett	FREEZER					
VLS 056 RF SDD	111	65	95	49,3	36	34,3 L	1,8 kg/24hr	29 x 0,6 L	10-45 DC	R290/R600a 100/133

## Laboratories Refrigerator/Freezer

Lemari pendingin yang digunakan untuk menyimpan obat-obatan dan keperluan farmasi.  
Cocok digunakan di Rumah Sakit & Laboratorium Farmasi.



LR-600  
LF-600



LR-1400  
LF-1400

### Features

- Full stainless-steel exterior & interior
- Removable drop-in refrigeration system
- Embraco / Secop Compressor
- Digital thermostat
- Electronic expansion valve
- HFC245 insulation foam, Ozone friendly
- Auto hot gas defrost with self-evaporated system
- Poly coated evaporator to prevent corrosion
- Removable door heater & gasket for easy maintenance
- Removable S/S bracket & tray slide
- Inner chamber with round corner design for easy cleaning
- Expandable alarm buzzer
- Door lock, castor & poly coated wire shelf

TYPE	DIMENSION (cm)			VOL. (L)	POWER (220V/1P/50hz)	REFRIG.	TEMP. (°C)	SHELVES	WEIGHT (kg)	
	W	D	H						Nett	Gross
LR-600	73,7	81,5	198	550	430 W	R290	-2 ~ +4	3 Pcs	130	138
LR-1400	140	81,5	198	1170	460 W	R290	-2 ~ +4	6 Pcs	190	205
LF-600	73,7	81,5	198	550	650 W	R290	-18 ~ -22	3 Pcs	130	138
LF-1400	140	81,5	198	1170	800 W	R290	-18 ~ -22	6 Pcs	190	205

# Pharmaceutical

Kulkas yang digunakan untuk menyimpan dan menjaga kualitas obat-obatan.

### Features

- Thermostat digital
- Vertical Light
- Expandable alarm buzzer
- No-Frost
- Wheels & Lock
- Temperature: +4 ~ +8°C



EXPO-490PH



EXPO-800PH



EXPO-1300PH

TYPE	DIMENSION (cm)			VOLUME (L)		WATT (220V/1P)	SHELF (pcs)	REFRIG.	WEIGHT NW / GW (kg)
	L	W	H	NET	GROSS				
EXPO-490PH	55	70,4	201	375	405	411	4	R290/62gr	95 / 98
EXPO-800PH	110	68	204	840	920	628	8	R290/132gr	150 / 153
EXPO-1300PH	160	68	204	1225	1350	748	12	R290/152gr	210 / 213

# Ultra Low Temperature Freezer

Temp. -25 ~ -65°C



DW65W158



DW65W308



DW65W370



DW65W600

### Features

- Secop compressor, German EBM fans
- Copper evaporator
- Mixed refrigerant
- Single unit self refrigeration system
- Digital thermostat
- 304 stainless steel interior
- Ultra thick foam layer
- Double door seal
- Safety door lock
- Air pressure balance design
- Dual-bearing universal wheels
- Digital thermostat

\*) DW-500 & DW 600 : 2 basket  
DW-158/308/370 : 1 basket

TYPE	DIMENSION (cm)			VOLUME (L)	POWER (220V/1P/50hz)	REFRIG.	TEMP. (°C)	WEIGHT (kg)	
	W	D	H					Nett	Gross
DW65W158	80	75,5	90	138	450	R134a+R600a	-25 ~ -65	61 / 78	
DW65W308	130	75,5	90	288	500			83 / 105	
DW65W370	150	75,5	90	350	550			91 / 116	
DW65W500	150	88,5	94	480	600			105 / 134	
DW65W600	175	88,5	94	580	700			113 / 147	

Temp. -45 ~ -86°C



DW86W158



DW86W308



DW86W370



DW86W600

### Features

- Secop compressor, German EBM fans
- Copper evaporator
- Mixed refrigerant
- Single unit self refrigeration system
- Digital thermostat
- 304 stainless steel interior
- Ultra thick foam layer
- Double door seal
- Safety door lock
- Air pressure balance design
- Dual-bearing universal wheels
- Digital thermostat

\*) DW-500 & DW 600 : 2 basket  
DW-158/308/370 : 1 basket

TYPE	DIMENSION (cm)			VOLUME (L)	POWER (220V/1P/50hz)	REFRIG.	TEMP. (°C)	WEIGHT (kg)	
	W	D	H					Nett	Gross
DW86W158	80	75,5	90	138	600	R134a+R600a	-45 ~ -86	61 / 78	
DW86W308	130	75,5	90	288	750			83 / 105	
DW86W370	150	75,5	90	350	850			91 / 116	
DW86W500	150	88,5	94	480	850			105 / 134	
DW86W600	175	88,5	94	580	850			113 / 147	