

UT-SERIES: VERSATILITY, EFFICIENCY AND DURABILITY.



SINGLE AND MULTI-TEMPERATURE SELF-POWERED
REFRIGERATION SYSTEMS FOR UNDERMOUNT APPLICATIONS

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WHY UT-SERIES?

GO UNDERMOUNT

Advantages of undermount refrigeration

- Lower truck height for better access to the city
- Higher truck cabin and lower noise for more driver comfort
- Lower center of gravity and less weight on front axle for better truck balance
- Better access for service/maintenance (no work at heights)

Common applications

- Inner city distribution
- City-to-city distribution (long haul or city trailers)
- Pharma distribution
- Airport catering



INTRODUCING THE NEW UT-SERIES

QUIET POWER

Optimized uptime and cargo safety

- The **highest cooling capacity in the diesel undermount market** allows for a much quicker time to reach the set-point and recover temperature after door openings
- UT-R Spectrum enables **multi-temperature flexibility** for delivering fresh and frozen good with up to three different compartments

Quiet operations, day & night

- **Reduced noise and vibrations by 3dB(A)** versus the legacy product
- Lower noise **improves the perception of your operations** on your local community and the well-being of your drivers
- Emitted noise can be further reduced with **Whisper option** on all models, **up to 4dB(A)**



INTRODUCING THE NEW UT-SERIES

SMALL & STRONG

More time on the road

- **Built upon the legacy of Thermo King's T-Series**, class leader in reliability
- Thermo King's **best-in-class compressor and new enclosure design** dramatically reduce the risk of breakdown and makes the unit much easier to service
- **2 Years warranty as standard**, and 3 or 4 years extended warranty as an option for additional peace of mind

Compact and light-weight

- **More space available underneath the truck** thanks to a 200mm width and 10% volume reduction versus the legacy product
- 40 kg weight reduction versus the legacy product for **increased cargo payload**



INTRODUCING THE NEW UT-SERIES

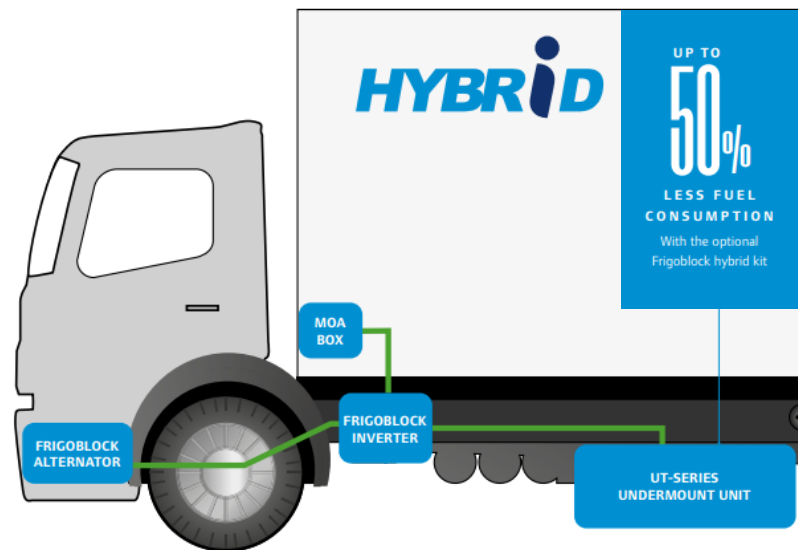
REDUCED ENVIRONMENTAL IMPACT

Performance & efficiency

- **Maximum system efficiency** by optimizing compressor and engine speed ratio and using the Electronic Throttling Valve (ETV) for an optimized refrigeration system
- Industry cleanest **Greentech engine** reduces CO₂ and other pollutant emissions
- Smart **Cycle-Sentry control mode** reduces fuel consumption and emissions by up to 80%

Alternative power sources

- Fully compatible with **100% HVO biofuel for up to 90% CO₂ emissions reduction**, with no impact on maintenance schedule
- **Hybrid option available** for up to 50% less fuel consumption



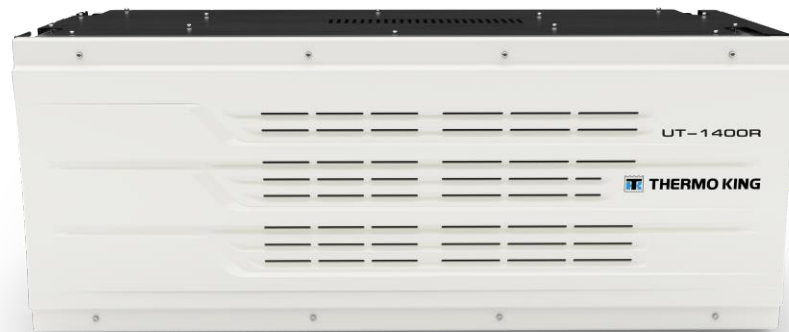
THE NEW UT-SERIES IN NUMBERS

3dB(A) Quieter than legacy product

40kg Lighter than legacy product

UP TO 18% More powerful and efficient vs next best competitive alternative

10% Smaller than legacy product



UT-SERIES: ADVANTAGES BY APPLICATION



Inner city distribution

- Reduced noise and emissions
- Better temperature recovery
- Lower truck heights and more space available

Recommended options: Whisper kit



City-to-city distribution

- Lower costs of operations
- Higher driver retention
- Operations reliability

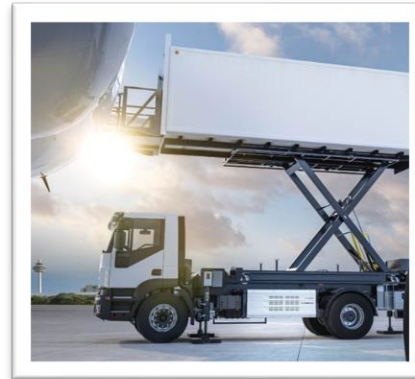
Recommended options: Telematics



Pharma distribution

- Accurate temperature control
- Operations reliability
- Reduced noise and emissions

Recommended options: Precise Temperature control (PTC)



Airport catering

- Reduced noise and emissions
- Operations reliability
- Lower costs of operations

Recommended options: Whisper kit

UT-SERIES: SPECIFICATIONS

SPECIFICATIONS				MEDIUM RANGE	LARGE RANGE					MULTI-TEMP
				UT-1000R (ES-800)	UT-1400R (S-3 + S-3)	UT-1400R (E-EVAP)	UT-R XTREME (S-3 + S-3)	UT-R XTREME (E-EVAP)	UT-R SPECTRUM	
COOLING CAPACITY	AMBIENT TEMPERATURE	BOX TEMPERATURE					FRESH ONLY APPLICATION. ATP NOT AVAILABLE.		NOMINAL S-4 + S-3 + S-2	
HIGH SPEED DIESEL	30 °C	0 °C	W	9700	12200	13100			11300	
	30 °C	-20 °C	W	5300	6600	7100			6400	
ELECTRIC STANDBY	30 °C	0 °C	W	8400	9900	10400			10300	
	30 °C	-20 °C	W	4500	4900	5300			4500	
HIGH SPEED DIESEL (HIGH AMBIENT)	55 °C	0 °C	W				6700	7100		
	55 °C	20 °C	W				12200	12900		
HEATING CAPACITY										
HIGH SPEED DIESEL	-18 °C	18 °C	W	4900	4400	4400				
ELECTRIC STANDBY	-18 °C	18 °C	W	3200	3200	3200				
AIRFLOW										
SINGLE TEMP EVAPORATOR			m ³ /hr	2640	4450	3350	4450	3350		
S-2			m ³ /hr						1420	
S-3			m ³ /hr						2350	
S-4.2 (DUAL DISCHARGE)			m ³ /hr						2550	
S-4			m ³ /hr						2840	

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				UT-1000R (ES-800)	UT-1400R (S-3 + S-3)	UT-1400R (E-EVAP)	UT-R XTREME (S-3 + S-3)	UT-R XTREME (E-EVAP)	UT-R SPECTRUM	
WEIGHT										
HOST + BATTERY + EVAP(S)			kg	514	583	542	583	542	S-3 + S-3=583 S-3 + S-4.2=585 S-3 + S-3 + S-2=626	
SOUND PRESSURE LEVEL @7M (DIN 8958 STANDARD)										
HIGH SPEED DIESEL			dB(A)	70,7	73,4	73,4	73,4	73,4	73,4	
LOW SPEED DIESEL			dB(A)	66,7	66,7	66,7	66,7	66,7	66,7	
ELECTRIC STANDBY			dB(A)	63,4	63,4	63,4	63,4	63,4	63,4	
REFRIGERANT										
TYPE				R-452A	R-452A	R-452A	R-134a	R-134a	R-452A	
CHARGE*			kg	3,9	4,85	4,6	4,85	4,6	8,5	
MAINTENANCE LEVEL										
EXTENDED MAINTENANCE INTERVAL			h	2000	2000	2000	2000	2000	2000	

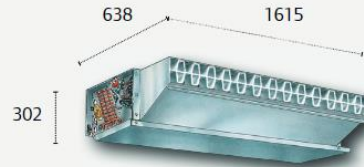
* ACTUAL CHARGE REQUIRED IS DEPENDENT OF INSTALLATION LAYOUT AND CONFIGURATION. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. AIRFLOW VOLUME AND WEIGHT WILL BE CUMULATIVE. CAPACITY WILL DEPEND ON UNIT CONFIGURATION.

UT-SERIES: DIMENSIONS

DIMENSIONS (MM)



UT-1000R/UT-1400R/
UT-R SPECTRUM



E-TYPE EVAPORATOR



ES800



S-2



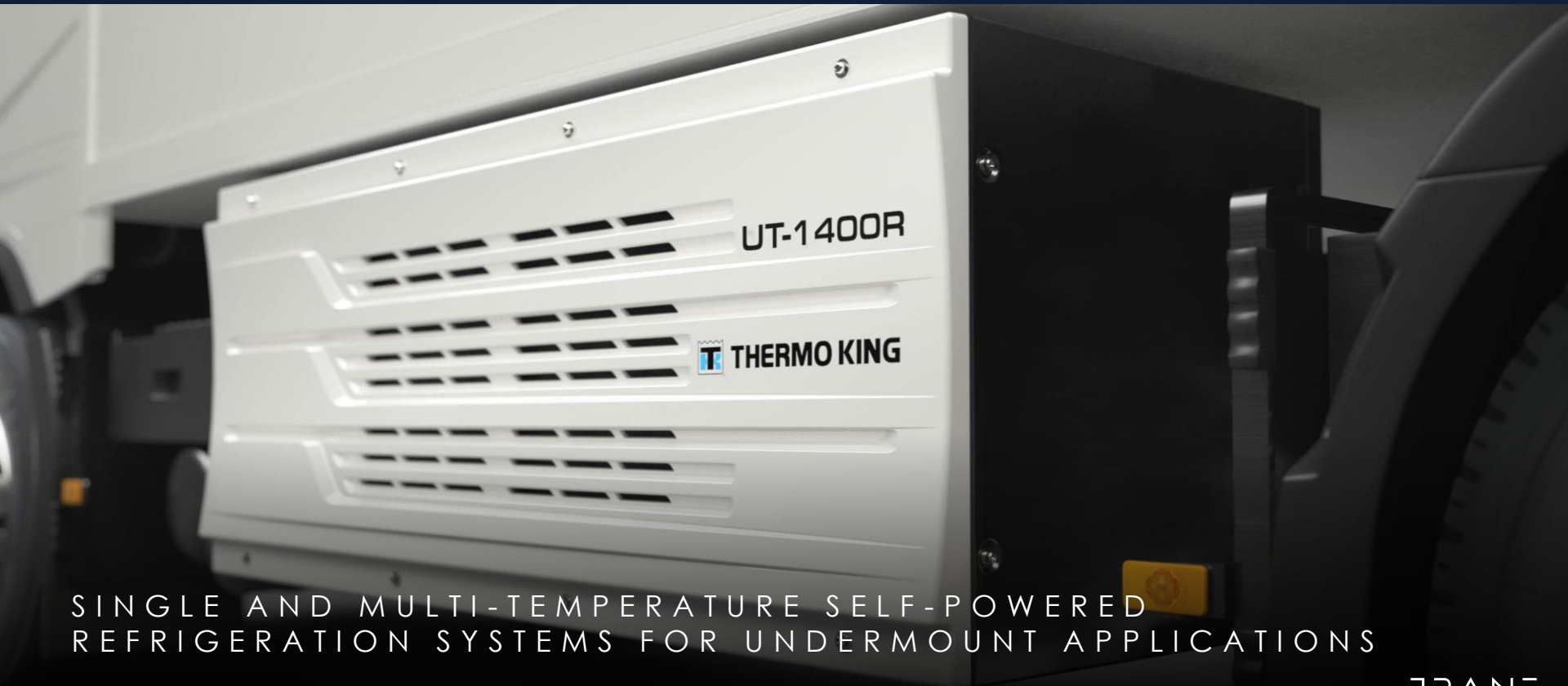
S-3



S-4.2

S-2, S-3 AND S-4.2 REMOTE EVAPORATORS CAN BE RECESSED IN THE BOX CEILING BY A MAX OF 25MM FOR EVEN SLIMMER EVAPORATOR PROFILE.

THANK YOU FOR YOUR ATTENTION!



SINGLE AND MULTI-TEMPERATURE SELF-POWERED
REFRIGERATION SYSTEMS FOR UNDERMOUNT APPLICATIONS