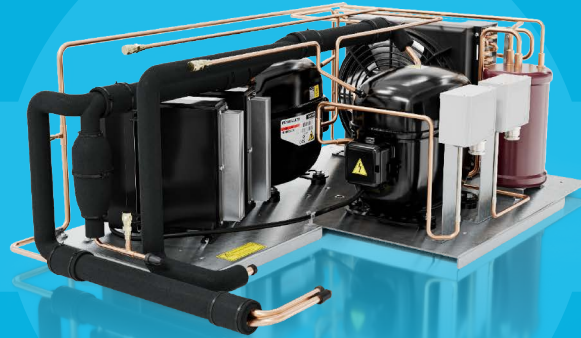


# ULT MEDICAL COOLING STATIONARY CASACADE CONDENSING UNIT

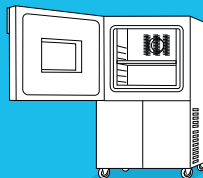
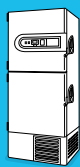
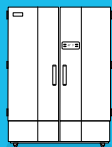
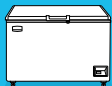
SECCP



2x MS18UVULTM



Medical Applications



Ultra-Low Temperature



Biomedical and Vaccine Storage



Variable-Speed Efficiency



Premium Controllers



Natural Refrigerants

- Arrangement of components on the baseplate is optimized for perfectly cooling compressors and controllers to allow high operational load at high ambient temperatures
- High effective oil separator in low-temperature stage to ensure operation without capillary tube problems and perfect heat transfer (= best possible energy efficiency) inside the evaporator
- Internal heat exchangers to keep refrigerant temperatures at non-critical levels in all operating conditions and to offer the best possible overall energy efficiency
- Compact design of the condensing unit and perfect accessibility of tube and electrical connectors for installation in the cabinet
- Highly efficient variable-speed compressors with very a broad power range for managing pull down and high load operation at high ambient temperatures as well as very energy efficient operation at stable temperatures
- Premium multi-voltage controllers, optimized to maximize the compressor efficiency and designed to include various in/out configurations as well as additional control features

Secop has developed new electronic controlled compressors for medical applications. They are significantly more efficient and with additional features for the next generation of medical cold chain cabinets. Ultra-low temperature systems require reliable environmentally friendly solutions.

Secop's dedicated range of electronically controlled compressors meet these requirements thanks to green low GWP hydrocarbon refrigerants and electronic control for low energy consumption.

The innovative modular multi-voltage control makes the new ULT series ideal for reliable medical cold chain installations. A cascade condensing unit solution using two **MS18UVULTM** medical variable-speed compressors for the low stage (R170) and high stage (R290) maximizes the performance of ULT systems while offering minimal consumption and maximum robustness.

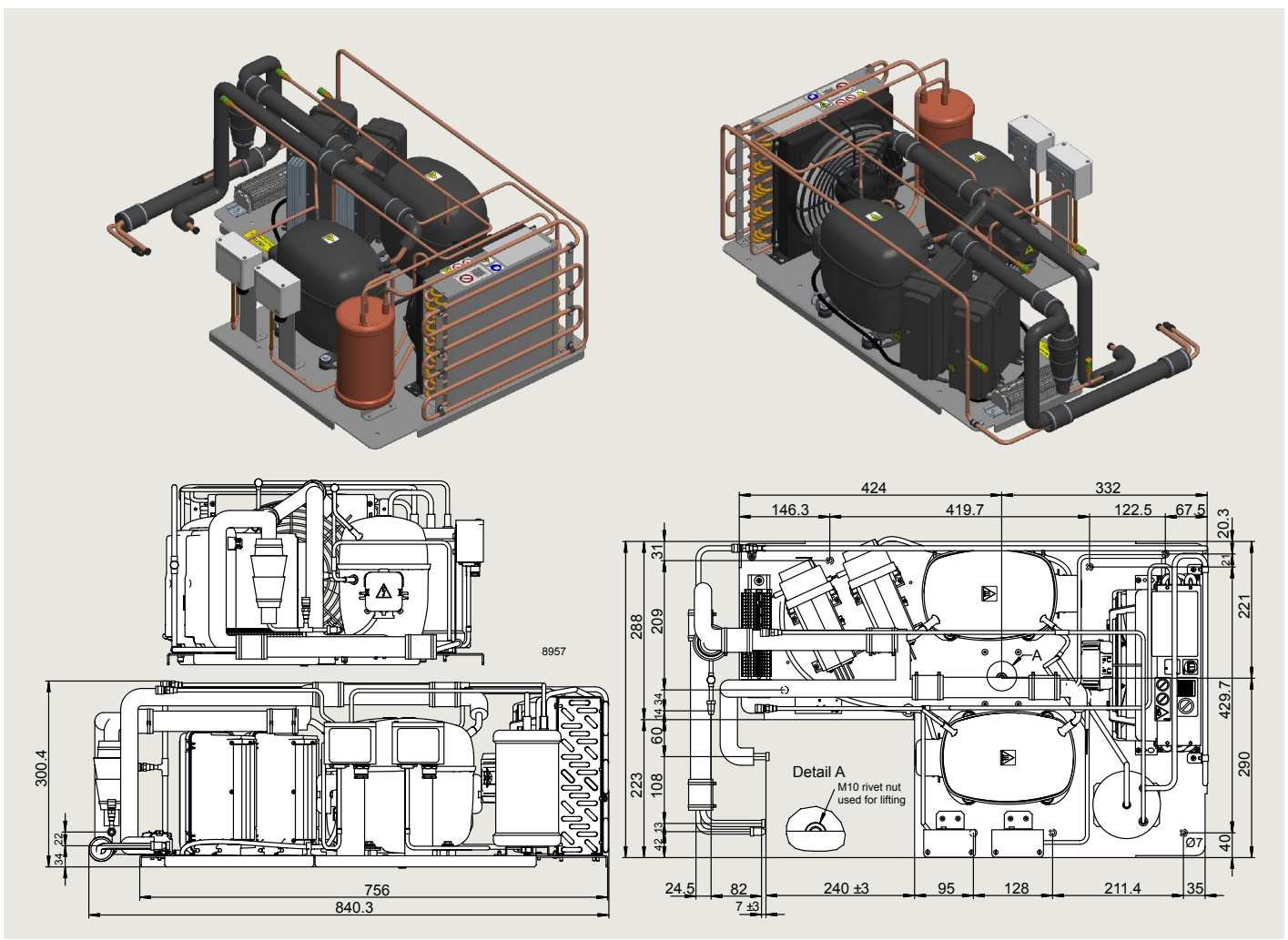
Secop's latest generation of innovative, green efficient compressors are a significant contribution to securing the ULT medical cold chain network supply.

High Stage	MS18UVULTM
Compressor	104M0820
Electronic unit	105N4730 or 105N4932 <b>MP</b> Multi-Voltage (available in 3rd quarter 2024)
Refrigerant	R290

Low Stage	MS18UVULTM
Compressor	104M0820
Electronic unit	105N4730 or 105N4932 <b>MP</b> Multi-Voltage (available in 3rd quarter 2024)
Refrigerant	R170

Application		
Compressor	°C	+10 to 43
Possible freezer compartment size	at -86°C	up to 900 liters
Possible freezer compartment temp.	°C	-20 to -86
Evaporating temperature	°C	-90 to -60
Voltage range	V / Hz	105N4730: 160-270 / 50-60, 105N4932: 80-270 / 50-60
Weight	kg	47.68 kg

Dimensions		
Height   width   depth	mm	300.4   840.3   511



### Ultra-Low Temperature Systems

Secop recommends using 2-stage cascade systems for the temperature range from -60°C to -90°C. These have been developed for highest reliability and product safety at ultra-low temperatures.



Learn more about  
Ultra-Low Temperature (ULT) Freezers  
[www.secop.com/ult](http://www.secop.com/ult)

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