

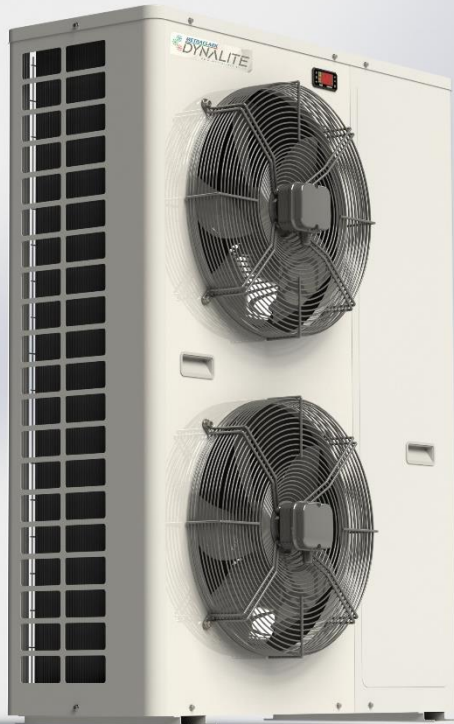


# METRA CLARK

Refrigeration & Air-Conditioning Wholesale

## DYNALITE

O U T D O O R C D U



*Catalogue*

## OUR MISSION AND CORE VALUES

Support our customers with friendly, skillful, and reliable expertise. Deliver refrigeration and air-conditioning products with the highest quality in the most efficient manner.

Metraclark conducts business as follows:



Devoted to honourable and ethical business practices.



Committed to customer support and service.



Dedicated to employee development.



Committed to continuous product development with the goal of reducing environmental impact.



Dedicated to building and maintain customer and supplier relationships.



Devoted to supplying cost effective food preservation and comfort cooling products available throughout Southern Africa.

**QUALIFIED ENGINEERS    CONTINUOUS DEVELOPMENT**  
**EXPERIENCED QUALITY    INTERNATIONAL    ISO : 9001**  
**LOCAL MANUFACTURING    LATEST PRODUCTS**  
**RELIABILITY    BESPOKE**  
**INNOVATION    **DYNAMIC**    TECHNOLOGY**  
**BESPOKE    ENERGY SAVING    QUALIFIED ENGINEERS**  
**TECHNOLOGY    LARGEST SALES NETWORK IN AFRICA**

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## COMMENTS

The DynaLite range of horizontal discharge air-cooled condensing units are compact, wall mounted outdoor refrigeration units. The DynaLite range has been designed to fit Copeland scroll, Copeland reciprocating, and Tecumseh reciprocating compressors. The range includes **29** different model variants, with one- and two fan condenser modules, suited for low- and medium temperature applications. The DynaLite was designed with three factors demanded by industry users; cost effective, ergonomic, and reliable in all southern African locations. Therefore, the DynaLite range is the most cost effective and reliable horizontal discharge condensing units for small commercial refrigeration applications, under the Metraclark Dynamic brand. The DynaLite range is manufactured under strict ISO 9001:2015 quality management and all units are pressure tested before dispatching.

## DESIGN

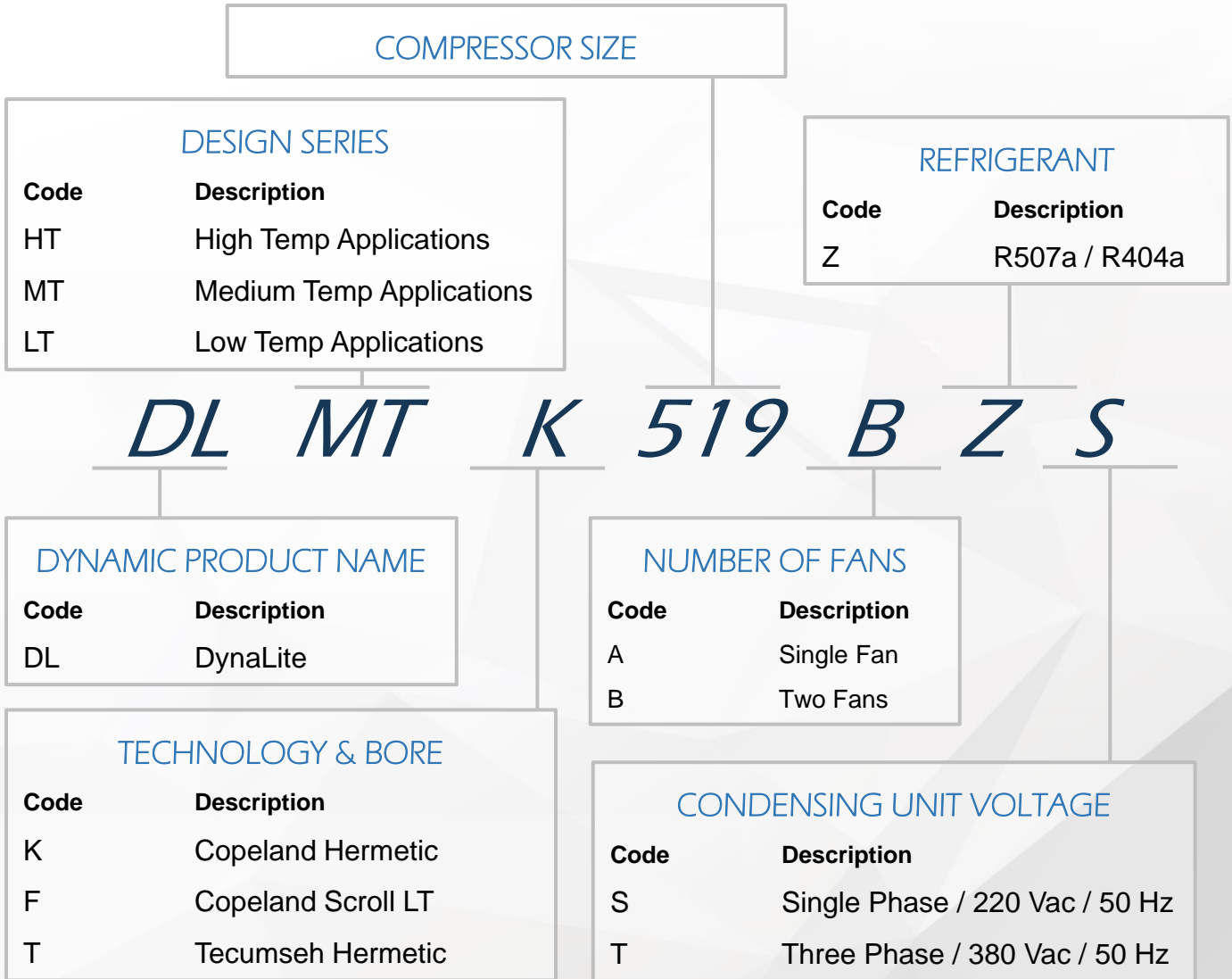
- DynaLite utilizes curved condenser block technology that allows for a compact design.
- Multi-refrigerant design options available: R404a, and R507a.
- Two condenser design configurations to suite all southern African ambient conditions.
- All sheet metal is fully powder coated for corrosion resistance.

## STANDARD COMPONENTS

- Powder coated outdoor enclosure.
- Copper tube and aluminium finned condenser coil block.
- Condenser fan speed control.
- Liquid receiver with outlet isolating valve.
- Liquid line with drier and sight glass.
- Individual Danfoss HP and LP switches, and pressure gauges.
- Service valves where applicable according to compressor type.
- Thermistor motor protection module.
- Compressor crankcase heater.
- Compressor and condenser electrics.

## NOMENCLATURE

The model designation contains the following technical information about the standard DynaLite range:



*FOR MORE INFORMATION PLEASE CONTACT YOUR NEAREST METRA CLARK  
OUTLET OR THE METRA CLARK ENGINEERING DEPARTMENT*

HIGH TEMPERATURE – 1PH		COOLING CAPACITY [kW]					R404A/R507	
Model Reference	Ambient Temperature [°C]	Suction Temperature [°C]						
		-15	-10	-5	0	5	10	
DLHTK461AZS	34	0.74	0.97	1.21	1.48	1.82	2.27	
	36	0.70	0.93	1.16	1.43	1.77	2.21	
	38	0.65	0.88	1.11	1.38	1.71	2.13	
	40	0.62	0.84	1.06	1.31	1.63	2.04	
DLHTK484AZS	34	1.16	1.63	2.17	2.78	3.46	4.22	
	36	1.07	1.53	2.05	2.64	3.30	4.04	
	38	0.99	1.43	1.94	2.51	3.15	3.87	
	40	0.91	1.33	1.82	2.37	3.00	3.69	
DLHTK511AZS	34	1.59	2.30	3.13	4.07	5.09	6.17	
	36	1.45	2.13	2.94	3.85	4.84	5.88	
	38	1.32	1.98	2.76	3.64	4.59	5.60	
	40	1.20	1.83	2.58	3.43	4.36	5.34	
DLHTK514BZS	34	2.33	3.27	4.34	5.56	6.92	8.44	
	36	2.15	3.06	4.11	5.28	6.61	8.09	
	38	1.98	2.86	3.87	5.01	6.30	7.73	
	40	1.81	2.67	3.64	4.75	5.99	7.38	
DLHTK519BZS	34	2.98	4.16	5.52	7.03	8.67	10.42	
	36	2.75	3.88	5.19	6.65	8.24	9.94	
	38	2.53	3.60	4.86	6.27	7.81	9.46	
	40	2.30	3.33	4.53	5.88	7.37	8.97	

HIGH TEMPERATURE – 3PH		COOLING CAPACITY [kW]					R404A/R507	
Model Reference	Ambient Temperature [°C]	Suction Temperature [°C]						
		-15	-10	-5	0	5	10	
DLHTK511AZT	34	1.59	2.30	3.13	4.07	5.09	6.17	
	36	1.45	2.13	2.94	3.85	4.84	5.88	
	38	1.32	1.98	2.76	3.64	4.59	5.60	
	40	1.20	1.83	2.58	3.43	4.36	5.34	
DLHTK514BZT	34	2.33	3.27	4.34	5.56	6.92	8.44	
	36	2.15	3.06	4.11	5.28	6.61	8.09	
	38	1.98	2.86	3.87	5.01	6.30	7.73	
	40	1.81	2.67	3.64	4.75	5.99	7.38	
DLHTK519BZT	34	2.98	4.16	5.52	7.03	8.67	10.42	
	36	2.75	3.88	5.19	6.65	8.24	9.94	
	38	2.53	3.60	4.86	6.27	7.81	9.46	
	40	2.30	3.33	4.53	5.88	7.37	8.97	

DESIGN CRITERIA: Subcooling: 0 [K] / Suction superheat: 10 [K]

## TECHNICAL SPECIFICATION

MODEL REFERENCE	CONDENSER MODEL	STUB CONNECTIONS		RECEIVER VOLUME [L]	DIMENSIONS			FLA [A]	STOCK CODE
		Liquid	Suction		L [m]	W [m]	H [m]		
DLHTK461AZS	JCU-2	3/8"	5/8"	3.4	0.970	0.530	0.835	4	DLH0001
DLHTK484AZS	JCU-2	3/8"	5/8"	3.4	0.970	0.530	0.835	6	DLH0003
DLHTK511AZS	JCU-3	3/8"	5/8"	3.4	0.970	0.530	0.835	8	DLH0005
DLHTK514BZS	JCU-5	1/2"	5/8"	6	0.980	0.530	1.33	12	DLH0007
DLHTK519BZS	JCU-6	1/2"	3/4"	6	0.980	0.530	1.33	16	DLH0009

MODEL REFERENCE	CONDENSER MODEL	STUB CONNECTIONS		RECEIVER VOLUME [L]	DIMENSIONS			FLA [A]	STOCK CODE
		Liquid	Suction		L [m]	W [m]	H [m]		
DLHTK511AZT	JCU-3	3/8"	5/8"	3.4	0.970	0.530	0.835	3	DLH0011
DLHTK514BZT	JCU-5	1/2"	5/8"	6	0.980	0.530	1.33	5	DLH0013
DLHTK519BZT	JCU-6	1/2"	3/4"	6	0.980	0.530	1.33	6	DLH0015

### ENGINEERING NOTES:

\*DynaLite units are to be installed and operated outside, in a well ventilated area, with suggested minimum wall clearance.

\*\*Anti-vibration pads are to be used under the feet of the unit.

\*\*\*Contact the Metraclark Engineering department for alternative DynaLite configurations.

## MEDIUM TEMPERATURE – 1PH

## COOLING CAPACITY [kW]

R404A/R507

Model Reference	Ambient Temperature [°C]	Suction Temperature [°C]					
		-15	-10	-5	0	5	10
DLMTK461AZS	32	0.74	0.97	1.21	1.48	1.82	2.27
	34	0.70	0.93	1.16	1.43	1.77	2.21
	36	0.65	0.88	1.11	1.38	1.71	2.13
	38	0.62	0.84	1.06	1.31	1.63	2.04
DLMTK484AZS	32	1.16	1.63	2.17	2.78	3.46	4.22
	34	1.07	1.53	2.05	2.64	3.30	4.04
	36	0.99	1.43	1.94	2.51	3.15	3.87
	38	0.91	1.33	1.82	2.37	3.00	3.69
DLMTK511AZS	32	1.59	2.30	3.13	4.07	5.09	6.17
	34	1.45	2.13	2.94	3.85	4.84	5.88
	36	1.32	1.98	2.76	3.64	4.59	5.60
	38	1.20	1.83	2.58	3.43	4.36	5.34
DLMTK514AZS	32	2.33	3.27	4.34	5.56	6.92	8.44
	34	2.15	3.06	4.11	5.28	6.61	8.09
	36	1.98	2.86	3.87	5.01	6.30	7.73
	38	1.81	2.67	3.64	4.75	5.99	7.38
DLMTK519AZS	32	2.98	4.16	5.52	7.03	8.67	10.42
	34	2.75	3.88	5.19	6.65	8.24	9.94
	36	2.53	3.60	4.86	6.27	7.81	9.46
	38	2.30	3.33	4.53	5.88	7.37	8.97

## MEDIUM TEMPERATURE – 3PH

## COOLING CAPACITY [kW]

R404A/R507

Model Reference	Ambient Temperature [°C]	Suction Temperature [°C]					
		-15	-10	-5	0	5	10
DLMTK511AZT	32	1.59	2.30	3.13	4.07	5.09	6.17
	34	1.45	2.13	2.94	3.85	4.84	5.88
	36	1.32	1.98	2.76	3.64	4.59	5.60
	38	1.20	1.83	2.58	3.43	4.36	5.34
DLMTK514AZT	32	2.33	3.27	4.34	5.56	6.92	8.44
	34	2.15	3.06	4.11	5.28	6.61	8.09
	36	1.98	2.86	3.87	5.01	6.30	7.73
	38	1.81	2.67	3.64	4.75	5.99	7.38
DLMTK519AZT	32	2.98	4.16	5.52	7.03	8.67	10.42
	34	2.75	3.88	5.19	6.65	8.24	9.94
	36	2.53	3.60	4.86	6.27	7.81	9.46
	38	2.30	3.33	4.53	5.88	7.37	8.97
DLMTK522AZT	32	3.32	4.57	6.05	7.77	9.75	12.03
	34	3.08	4.28	5.71	7.37	9.30	11.51
	36	2.84	4.00	5.37	6.98	8.84	10.99
	38	2.61	3.71	5.03	6.58	8.39	10.47
DLMTK530BZT	32	4.34	6.12	8.11	10.35	12.92	15.85
	34	4.04	5.76	7.69	9.87	12.37	15.24
	36	3.76	5.42	7.28	9.39	11.82	14.62
	38	3.50	5.08	6.87	8.91	11.26	13.98
DLMTK536BZT	32	5.47	7.48	9.82	12.52	15.62	19.13
	34	5.13	7.06	9.32	11.93	14.95	18.39
	36	4.79	6.64	8.81	11.34	14.28	17.64
	38	4.47	6.22	8.30	10.75	13.59	16.87

DESIGN CRITERIA: Subcooling: 0 [K] / Suction superheat: 10 [K]

## TECHNICAL SPECIFICATION

MODEL REFERENCE	CONDENSER MODEL	STUB CONNECTIONS		RECEIVER VOLUME [L]	DIMENSIONS			FLA [A]	STOCK CODE
		Liquid	Suction		L [m]	W [m]	H [m]		
DLMTK461AZS	JCU-2	3/8"	5/8"	3.4	0.970	0.530	0.835	4	DLM0001
DLMTK484AZS	JCU-2	3/8"	5/8"	3.4	0.970	0.530	0.835	6	DLM0003
DLMTK511AZS	JCU-2	3/8"	5/8"	3.4	0.970	0.530	0.835	8	DLM0005
DLMTK514AZS	JCU-2	1/2"	5/8"	3.4	0.970	0.530	0.835	11	DLM0007
DLMTK519AZS	JCU-3	1/2"	3/4"	3.4	0.970	0.530	0.835	16	DLM0009

MODEL REFERENCE	CONDENSER MODEL	STUB CONNECTIONS		RECEIVER VOLUME [L]	DIMENSIONS			FLA [A]	STOCK CODE
		Liquid	Suction		L [m]	W [m]	H [m]		
DLMTK511AZT	JCU-2	3/8"	5/8"	3.4	0.970	0.530	0.835	3	DLM0011
DLMTK514AZT	JCU-2	1/2"	5/8"	3.4	0.970	0.530	0.835	5	DLM0013
DLMTK519AZT	JCU-3	1/2"	3/4"	3.4	0.970	0.530	0.835	6	DLM0015
DLMTK522AZT	JCU-3	1/2"	3/4"	3.4	0.970	0.530	0.835	7	DLM0017
DLMTK530BZT	JCU-5	1/2"	3/4"	6	0.980	0.530	1.33	14	DLM0019
DLMTK536BZT	JCU-6	1/2"	3/4"	6	0.980	0.530	1.33	17	DLM0021

### ENGINEERING NOTES:

\*DynaLite units are to be installed and operated outside, in a well ventilated area, with suggested minimum wall clearance.

\*\*Anti-vibration pads are to be used under the feet of the unit.

\*\*\*Contact the Metraclark Engineering department for alternative DynaLite configurations.



# Tecumseh HERMETIC

LOW TEMPERATURE – 1PH		COOLING CAPACITY [kW]						R404A/R507
Model Reference	Ambient Temperature [°C]	Suction Temperature [°C]						
		-40	-35	-30	-25	-20	-15	
DLLTT2464AZS	32	0.54	0.77	1.04	1.37	1.75	2.20	
	34	0.51	0.73	0.99	1.30	1.67	2.11	
	36	0.47	0.68	0.94	1.24	1.60	2.01	
	38	0.44	0.64	0.89	1.18	1.52	1.92	
DLLTT2480AZS	32	0.60	1.01	1.48	2.02	2.63	3.32	
	34	0.53	0.93	1.39	1.91	2.51	3.18	
	36	0.46	0.85	1.30	1.81	2.38	3.04	
	38	0.39	0.78	1.21	1.70	2.26	2.89	
DLLTT2511AZS	32	0.83	1.36	1.98	2.70	3.53	4.49	
	34	0.75	1.26	1.86	2.56	3.37	4.31	
	36	0.66	1.16	1.75	2.43	3.22	4.12	
	38	0.58	1.07	1.63	2.29	3.06	3.94	

# Copeland HERMETIC

LOW TEMPERATURE – 3PH		COOLING CAPACITY [kW]						R404A/R507
Model Reference	Ambient Temperature [°C]	Suction Temperature [°C]						
		-40	-35	-30	-25	-20	-15	
DLLTK512AZT	32	0.80	1.04	1.72	2.56	3.56	4.73	
	34	0.72	0.94	1.58	2.37	3.33	4.46	
	36	0.63	0.83	1.43	2.19	3.10	4.19	
	38	0.55	0.73	1.29	2.00	2.87	3.92	
DLLTK515BZT	32	0.99	1.28	2.05	2.94	4.00	5.27	
	34	0.88	1.15	1.90	2.75	3.76	4.98	
	36	0.76	1.03	1.74	2.55	3.51	4.68	
	38	0.65	0.91	1.58	2.35	3.27	4.39	
DLLTK517BZT	32	1.04	1.34	2.16	3.09	4.20	5.53	
	34	0.92	1.21	1.99	2.88	3.94	5.23	
	36	0.80	1.08	1.83	2.68	3.69	4.92	
	38	0.69	0.95	1.66	2.47	3.44	4.61	
DLLTK520BZT	32	0.97	1.28	2.11	3.07	4.22	5.58	
	34	0.90	1.20	2.03	2.98	4.09	5.42	
	36	0.81	1.11	1.94	2.87	3.96	5.25	
	38	0.69	1.00	1.83	2.75	3.82	5.08	

# Copeland SCROLL

LOW TEMPERATURE – 3PH		COOLING CAPACITY [kW]						R404A/R507
Model Reference	Ambient Temperature [°C]	Suction Temperature [°C]						
		-37	-35	-30	-25	-20	-15	
DLLTF015BZT	32	2.12	2.75	3.50	4.41	5.49	6.79	
	34	2.03	2.63	3.35	4.22	5.27	6.52	
	36		2.51	3.21	4.04	5.04	6.25	
	38		2.39	3.06	3.86	4.82	5.97	
DLLTF018BZT	32	2.39	3.22	4.15	5.23	6.51	8.02	
	34	2.25	3.06	3.97	5.02	6.25	7.72	
	36		2.89	3.78	4.79	5.99	7.41	
	38		2.72	3.58	4.57	5.72	7.09	
DLLTF025BZT	32	3.18	4.12	5.25	6.60	8.23	10.18	
	34	3.05	3.95	5.04	6.34	7.91	9.80	
	36		3.78	4.82	6.08	7.59	9.42	
	38		3.61	4.61	5.82	7.28	9.04	

DESIGN CRITERIA: Subcooling: 0 [K] / Suction superheat: 10 [K]

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\*Cooling capacities listed are estimated values.

\*\*Cooling capacities subject to change without notice.

\*\*\*Oil separator for 4HP compressors and up.

\*\*\*\*Pipe sizing design criteria of 10m pipe runs.

## TECHNICAL SPECIFICATION



# Tecumseh

MODEL REFERENCE	CONDENSER MODEL	STUB CONNECTIONS		RECEIVER VOLUME [L]	DIMENSIONS			FLA [A]	STOCK CODE
		Liquid	Suction		L [m]	W [m]	H [m]		
DLLTT2464AZS	JCU-2	3/8"	5/8"	3.4	0.970	0.530	0.835	10	DLL0001
DLLTT2480AZS	JCU-2	3/8"	5/8"	3.4	0.970	0.530	0.835	16	DLL0003
DLLTT2511AZS	JCU-3	3/8"	5/8"	3.4	0.970	0.530	0.835	24	DLL0005

## Copeland HERMETIC

MODEL REFERENCE	CONDENSER MODEL	STUB CONNECTIONS		RECEIVER VOLUME [L]	DIMENSIONS			FLA [A]	STOCK CODE
		Liquid	Suction		L [m]	W [m]	H [m]		
DLLTK512AZT	JCU-3	3/8"	5/8"	3.4	0.970	0.530	0.835	8	DLL1001
DLLTK515BZT	JCU-5	3/8"	5/8"	6	0.980	0.530	1.33	9	DLL1003
DLLTK517BZT	JCU-5	1/2"	3/4"	6	0.980	0.530	1.33	10	DLL1005
DLLTK520BZT	JCU-5	1/2"	3/4"	6	0.980	0.530	1.33	17	DLL1007

## Copeland SCROLL

MODEL REFERENCE	CONDENSER MODEL	STUB CONNECTIONS		RECEIVER VOLUME [L]	DIMENSIONS			FLA [A]	STOCK CODE
		Liquid	Suction		L [m]	W [m]	H [m]		
DLLTF015BZT	JCU-5	1/2"	3/4"	6	0.980	0.530	1.330	11	DLL2015
DLLTF018BZT	JCU-5	1/2"	3/4"	6	0.980	0.530	1.330	13	DLL2018
DLLTF025BZT	JCU-6	1/2"	3/4"	6	0.980	0.530	1.330	17	DLL2025

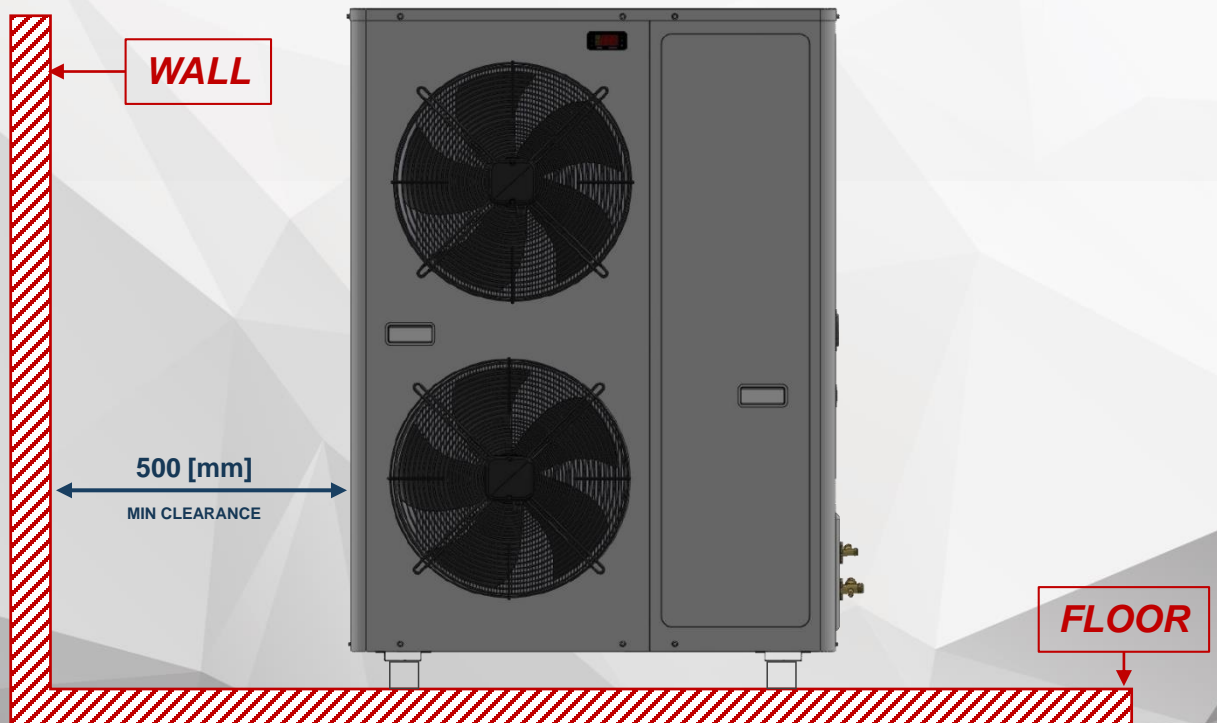
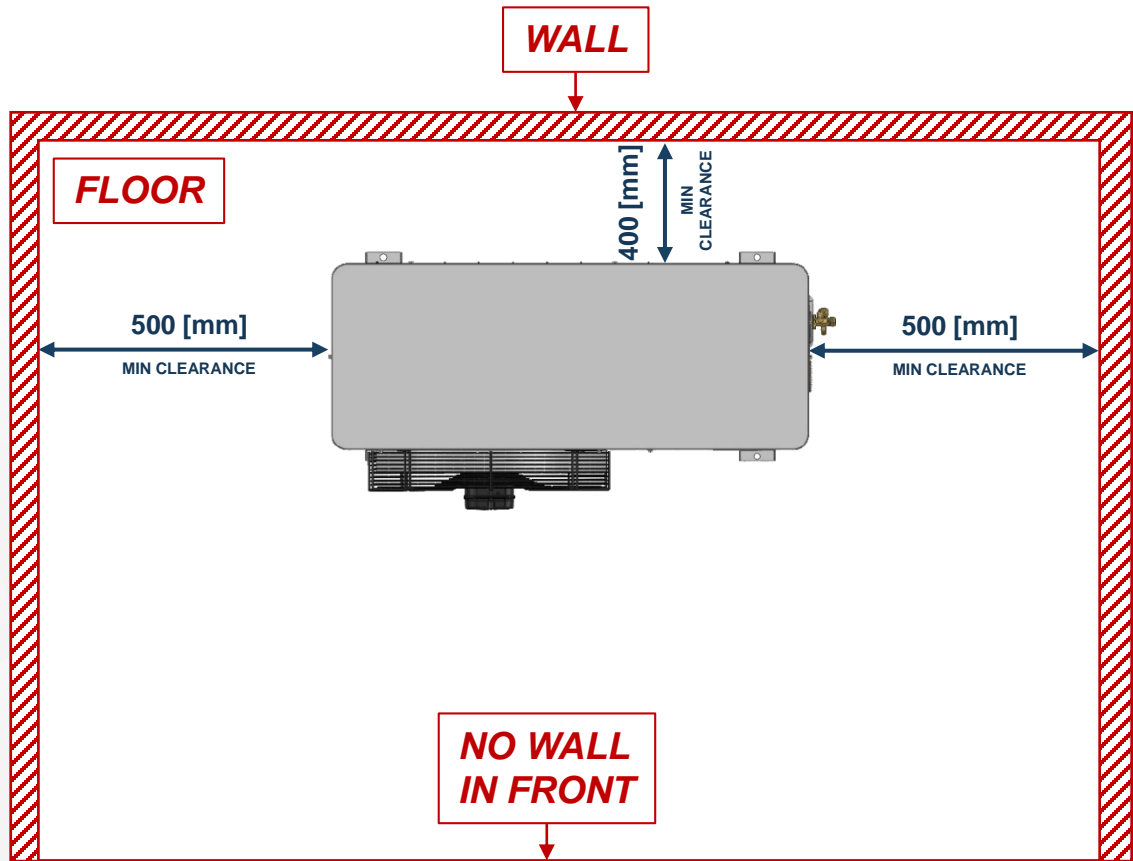
### ENGINEERING NOTES:

\*DynaLite units are to be installed and operated outside, in a well ventilated area, with suggested minimum wall clearance.

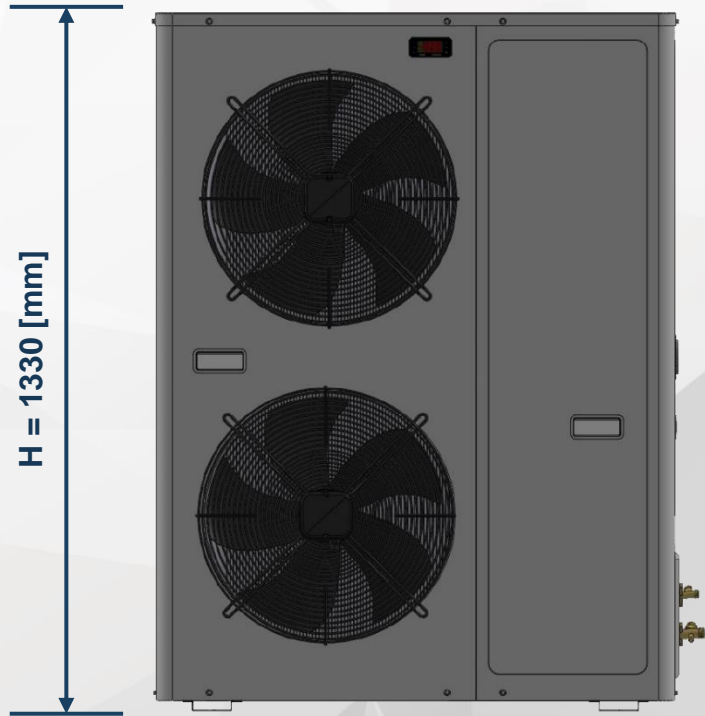
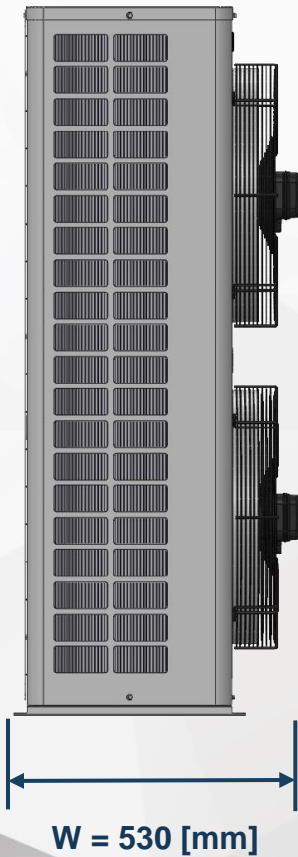
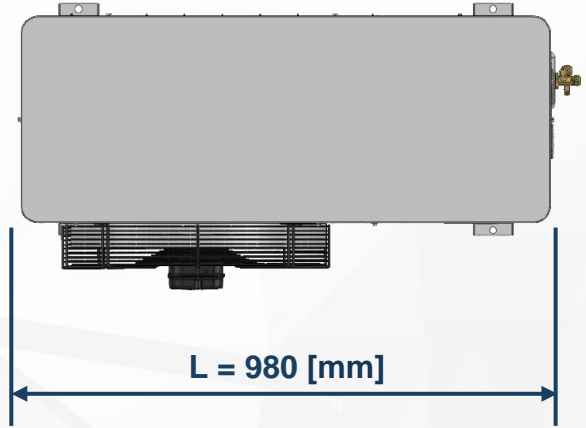
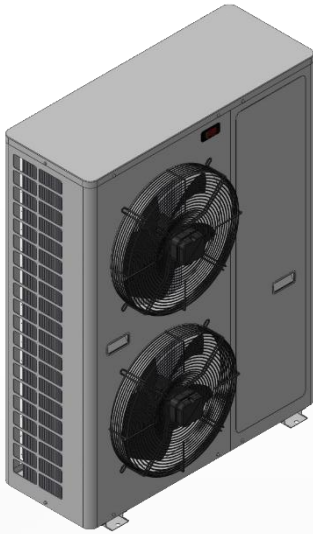
\*\*Anti-vibration pads are to be used under the feet of the unit.

\*\*\*Contact the Metraclark Engineering department for alternative DynaLite configurations.

# INSTALLATION GUIDELINE DRAWINGS



## DIMENSIONAL DRAWINGS



### ENGINEERING NOTES:

\*DynaLite unit illustrated is the DLHTK519BZS condensing unit and the dimensions are for the specified unit only, please refer to the technical specification pages with this catalogue for correct dimensions of the individual unit.



# **METRACLARK**

*Refrigeration & Air-Conditioning Wholesale*

Central: 0861 100 013  
Cape East: 0861 100 014  
Gauteng: 0861 100 015

[www.metraclark.co.za](http://www.metraclark.co.za)

KZN: 0861 100 016  
North: 0861 100 017  
Cape West: 0861 100 018