

# NO OUTDOOR CONDENSER



**APARTMENTS**  
**HERITAGE**  
**HOTELS**  
**AGED CARE**

Air-cooled  
Ducted  
Self-contained  
HideAway  
Zero Harm  
Natural Refrigerants





## Air-conditioning Reinvented

*Polaris Technologies new HideAway Series presents an innovative approach to out-of-sight air-conditioning.*

These units are self-contained, ducted air-cooled machines, suitable for above ceiling installation. No condensing unit is required.

Designed in Australia for our hot climate, the HideAway Series delivers exceptional performance throughout the year – even on the hottest days up to 48°C. The condenser air ducts can be extended up to 6 meters using acoustic flexible duct which provides extremely low outdoor sound levels.



The HideAway Series is ideal in situations where unattractive external units need to be avoided like in heritage buildings, apartments and hotels. The units come in two power ratings: 3.5kW and 10kW and are suitable for new projects and retrofits.

[sales@polaristechnologies.com.au](mailto:sales@polaristechnologies.com.au)



Hidden away – out of sight, out of mind, the Polaris HideAway only makes its presence felt with the consistent comfort it provides. Quiet and reliable throughout the hot Australian summer.



[www.polaristechnologies.com.au](http://www.polaristechnologies.com.au)



# No Outdoor Units



## ***No unattractive external units***

Polaris Technologies new HideAway Series opens up new possibilities for designers and architects who can now dispense with unsightly exterior units. The units are also very easy to install, requiring less plumbing and pipe ducting than existing methods.

The **Polaris HideAway** is hidden away in the roof – this is ideal for retrofitting heritage buildings or apartments and hotels where external units need to be avoided.

Rooftops can be cleared of unsightly exterior units with a Polaris HideAway ducted system. Venting can be incorporated into building facades giving architects and designers more freedom to preserve the building's clean lines.

**CALL 1300 782 761**

### 3.5kW Polaris Hideaway Unit

Parameter		Unit	
Model		--	EPC-12A1
Product Code		--	/
Power Supply	Rated Voltage	V~	220~240
	Rated Frequency	Hz	50
	Phases	--	1
Recommended Power Cable(Core)		--	3G1.5
Min/Max. Voltage		V	185/265
Cooling Capacity		W	3420
Heating Capacity		W	3500
Cooling Power Input		W	1000
Heating Power Input		W	1030
Cooling Current		A	4.40
Heating Current		A	4.70
Rated Input		W	1900
Rated Current		A	9.50
Starting Current		A	/
AEER		W/W	3.28
ACOP		W/W	3.31
Air Flow Volume		m <sup>3</sup> /h	700
ESP Standard		Pa	60
ESP Range		Pa	0-100
Dehumidifying Volume		L/h	0.95
Dehumidifying Volume		PINT/D	2.01
Application Area		m <sup>2</sup>	15-22
Evaporator	Fan Type	--	Centrifugal
	Fan Diameter Length(DxL)	mm	φ180x185
	Cooling Speed	r/min	1050/850/550
	Heating Speed	r/min	1050/850/550
	Fan Motor Power Output	W	90
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	2.5
	Evaporator Form	--	Aluminum Fin-copper
	Evaporator Pipe Diameter	mm	φ7
	Evaporator Row-fin Gap	mm	1.4
	Evaporator Coil Length (LxDxW)	mm	680x285x38.1
	Set Temperature Range	°C	16~31
	Sound Pressure Level	dB (A)	45-58
	Sound Power Level	dB (A)	55-68
Condenser	Compressor Model	--	41T100-A8-BMDE(A)
	Compressor Type	--	Rotary
	Compressor LRA	A	4.64
	Compressor RLA	A	25
	Compressor Power Input	W	1020
	Compressor Overload Protector	--	/
	Fan Type	--	Centrifugal
	Fan Diameter	mm	φ180x185
	Fan Motor Speed	rpm	1150
	Fan Motor Power Output	W	90
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	3
	Air Flow Volume	m <sup>3</sup> /h	1400
	Evaporator Form	--	Aluminum Fin-copper
	Condenser Pipe Diameter	mm	φ7
	Condenser Rows-fin Gap	mm	1.6
	Condenser Rows-fin Gap	inch	0.06
	Condenser Coil Length (LxDxW)	mm	716x275x76.2
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Cooling Operation Ambient Temperature Range	°C	-15~48
	Throttling Method	--	EEV
	Defrosting Method	--	Automatic
	Climate Type	--	T1
	Climate Zone	--	T1
	Isolation	--	I
	Moisture Protection	--	IP24
	Sound Pressure Level	dB (A)	60
	Sound Power Level	dB (A)	70
	Dimension (WxHxD)	mm	1100*300*910
	Dimension of Carton Box (WxHxD)	mm	1276x350x1035
	Net Weight	kg	82.00
	Gross Weight	kg	86.00
	Refrigerant	--	M60
Refrigerant Charge	kg	0.54	
Loading Quantity	Loading Quantity ( 20' Container )	unit	48
	Loading Quantity ( 40' Container )	unit	116
	Loading Quantity ( 40' High Cube Container )	unit	134

### 10kW Polaris Hideaway Unit

Parameter		Unit		
Model		--	EPC-30A1	
Product Code		--	/	
Power Supply	Rated Voltage	V~	220~240	
	Rated Frequency	Hz	50	
	Phases	--	1	
Cross-sectional Area of Power Cable Conductor		mm <sup>2</sup>	4G0.75	
Recommended Power Cable(Core)		--	3G2.5	
ESP Standard		Pa	60	
ESP Range		Pa	0-100	
Min/Max. Voltage		V	185/265	
Cooling Capacity		W	8680	
Heating Capacity		W	8820	
Cooling Power Input		W	2480	
Heating Power Input		W	2420	
Cooling Current		A	12.00	
Heating Current		A	11.80	
Rated Input		W	4500	
Rated Current		A	23.5	
Starting Current		A	/	
AEER		W/W	3.34	
ACOP		W/W	3.47	
Air Flow Volume		m <sup>3</sup> /h	1300	
Dehumidifying Volume		L/h	2.1	
Dehumidifying Volume		m <sup>2</sup>	32-50	
Application Area		m <sup>2</sup>	32-50	
Indoor Section	Indoor Unit Model	--	EPE30-A1	
	Fan Type	--	Centrifugal	
	Fan Diameter Length(DxL)	mm	φ180x185	
	Cooling Speed	r/min	1050/850/550	
	Heating Speed	r/min	1050/850/550	
	Fan Motor Power Output	W	90*2	
	Fan Motor RLA	A	0.4	
	Fan Motor Capacitor	μF	2.5	
	Evaporator Form	--	Aluminum Fin-copper	
	Evaporator Pipe Diameter	mm	φ7	
	Evaporator Pipe Diameter	inch	φ0.275	
	Evaporator Row-fin Gap	mm	1.4	
	Evaporator Row-fin Gap	inch	0.055	
	Evaporator Coil Length (LxDxW)	mm	710x38.1x381	
	Set Temperature Range	°C	16~31	
	Sound Pressure Level	dB (A)	49/39/36	
	Sound Power Level	dB (A)	59/49/46	
	Dimension (WxHxD)	mm	1080x485x410	
	Dimension of Carton Box (WxHxD)	mm	1280x620x455	
	Stacked Layers	--	4	
	Net Weight	kg	42	
	Gross Weight	kg	46	
	Outdoor Section	Outdoor Unit Model	--	EPC30-A1
		Compressor Trademark	--	Mitsubishi
		Compressor Manufacturer	--	MITSUBISHI ELECTRIC(GUANGZHOU) COMPRESSOR
		Compressor Model	--	TNB220FFEMC
		Compressor Oil	--	FV50S or
		Compressor Type	--	Rotary
		Compressor LRA	A	25
		Compressor RLA	A	8.7
		Compressor Power Input	W	2150
		Compressor Overload Protector	--	External thermal
		Fan Type	--	Axial-flow
		Fan Diameter	mm	φ230-240
Fan Motor Speed		rpm	780	
Fan Motor Power Output		W	700	
Fan Motor RLA		A	3.2	
Fan Motor Capacitor		μF	15	
Outdoor Unit Air Flow Volume		m <sup>3</sup> /h	2630	
Condenser Form		--	Aluminum Fin-copper	
Condenser Pipe Diameter		mm	φ7	
Condenser Pipe Diameter		inch	φ0.27	
Condenser Rows-fin Gap		mm	1.4	
Condenser Rows-fin Gap		inch	0.055	
Condenser Coil Length (LxDxW)		mm	660x76.2x390	
Permissible Excessive Operating Pressure for the Discharge Side		MPa	4.3	
Permissible Excessive Operating Pressure for the Suction Side		MPa	2.5	
Cooling Operation Ambient Temperature Range		°C	-15~48	
Throttling Method		--	EEV	
Defrosting Method		--	Automatic	
Climate Type		--	T1	
Climate Zone		--	T1	
Isolation		--	/	
Moisture Protection		--	IP24	
Sound Pressure Level		dB (A)	58	
Sound Power Level		dB (A)	68	
Dimension (WxHxD)	mm	1080x780x410		
Dimension of Carton Box (WxHxD)	mm	1280x920x455		
Stacked Layers	--	4		
Net Weight	kg	82		
Gross Weight	kg	86		
Refrigerant	--	M60		
Refrigerant Charge	kg	0.85		
Loading Quantity	Loading Quantity ( 20' Container )	unit	30	
	Loading Quantity ( 40' Container )	unit	63	
	Loading Quantity ( 40' High Cube Container )	unit	75	