

ENTHALPY EB SERIES BASIC UNITS

Enthalpy

Semi Hermetic EB Series Basic Units

STD – EB Basic Units

LLCM – EB Basic Units

Standard Features

- Bitzer Ecoline Semi Hermetic Compressor
- Oil Level Monitor (OLC-K1 or Delta PII)
- Compressor Crankcase Oil Sight Glass
- Crankcase Heater
- Flat Unit Base (AR72)
- Service Shut Off Valves
- Discharge Vibration Eliminator
- Gomax Flexible Control Hoses
- Liquid Line Drier & Sight Glass
- Suction Accumulator
- Liquid Receiver
- Weatherproof Electrical Box
- Pre-Wired to Electrical Box
- Three Phase Contactors
- Electronic Motor Protection Relays
(Phase Loss & Phase Imbalance Protection)
- Dual Pressure Control
- Oil Separator – Internal float

Standard Features

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- Crankcase Heater
- Flat Unit Base (AR72)
- Service Shut Off Valves
- Discharge Vibration Eliminator
- Gomax Flexible Control Hoses
- Liquid Line Drier & Sight Glass
- Suction Accumulator
- Liquid Receiver
- Weatherproof Electrical Box
- Pre-Wired to Electrical Box
- Three Phase Contactors
- Electronic Motor Protection Relays
(Phase Loss & Phase Imbalance Protection)
- LP & HP Pressure Controls
- Oil Separator with Reservoir
- Dekka Oil Level Regulator
- Bitzer CR11 10-100% capacity regulation
Utilizing Bitzer CM-RC-01 control module
with Carel DN33 electronic controller.
- Compressor Head Cooling Fan

Unit Model:
EB4DES7AR72STD



ENTHALPY EB SERIES BASIC UNITS

EB Semi Hermetic Basic Unit Specifications

STD – EB Basic Units

Unit Model	Unit Connections				Unit Weight (kg)	Compressor		Liquid Receiver	Dimension Drawing		
	Suction	Liquid	Oil Sep Outlet (copper tails)	Receiver Inlet (copper tails)		Voltage 380/400V 3Phase 50Hz	MOC maximum operating current	R404a @ 90% (kg)			
EB4DES7AR72STD	1-1/8"	5/8"	7/8"	5/8"	tba	D.O.L.	16.5	12.0 kg	A		
EB4CES9AR72STD	1-1/8"	5/8"	7/8"	5/8"	tba		20.2				
EB4TES12AR72STD	1-3/8"	5/8"	7/8"	5/8"	tba		25.1	Vertical Receiver	A		
EB4PES15AR72STD	1-3/8"	3/4"	1-1/8"	7/8"	tba	P.W.S.	28.2	34.0 kg	B		
EB4NES20AR72STD	1-3/8"	3/4"	1-1/8"	7/8"	tba		33.2				
EB4HE25AR72STD	2-1/8"	7/8"	1-3/8"	7/8"	tba		44.0			Horizontal Receiver	B
EB4GE30AR72STD	2-1/8"	7/8"	1-3/8"	7/8"	tba		51.2				
EB4FE35AR72STD	2-1/8"	7/8"	1-3/8"	1-1/8"	tba		62.1				

Note: Bitzer Crankcase Heaters are internal PTC self-regulating 230 volts.

LLCM – EB Basic Units

Unit Model	Unit Connections				Unit Weight (kg)	Compressor		Liquid Receiver	Dimension Drawing		
	Suction	Liquid	Oil Sep Outlet (copper tails)	Receiver Inlet (copper tails)		Voltage 380/400V 3Phase 50Hz	MOC maximum operating current	R404a @ 90%			
EB4DES7AR72LLCM	1-1/8"	5/8"	1-1/8"	5/8"	tba	D.O.L.	16.5	12.0 kg	A		
EB4CES9AR72LLCM	1-1/8"	5/8"	1-3/8"	5/8"	tba		20.2				
EB4TES12AR72LLCM	1-3/8"	5/8"	1-3/8"	5/8"	tba	P.W.S.	25.1	34.0 kg	A		
EB4PES15AR72LLCM	1-3/8"	3/4"	1-3/8"	7/8"	tba		28.2				
EB4NES20AR72LLCM	1-3/8"	3/4"	1-3/8"	7/8"	tba		33.2				
EB4HE25AR72LLCM	2-1/8"	7/8"	1-3/8"	7/8"	tba		44.0			Horizontal Receiver	B
EB4GE30AR72LLCM	2-1/8"	7/8"	1-3/8"	7/8"	tba		51.2				
EB4FE35AR72LLCM	2-1/8"	7/8"	1-3/8"	1-1/8"	tba	62.1	B				

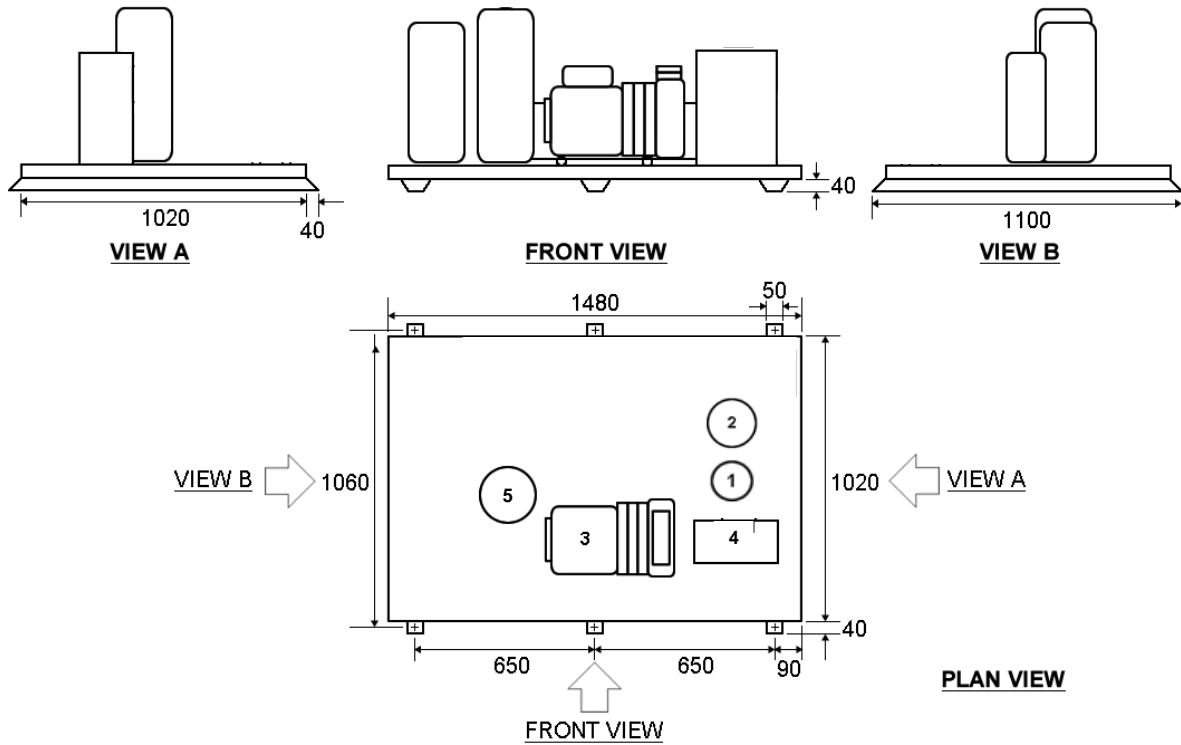
Note: Bitzer Crankcase Heaters are internal PTC self-regulating 230 volts.

ENTHALPY EB SERIES BASIC UNITS

EB Semi Hermetic Basic Unit Dimensions

Drawing A

Enthalpy Basic Units (AR72 Base)	*O/A Height (mm)	O/A Width (mm)	O/A Depth (mm)
EB4DES7AR72STD / LLCM EB4CES9AR72STD / LLCM EB4TES12AR72STD / LLCM	800	1480	1100
Note: Diagram should be used as a guide only as compressor & vessel positions may change – not to scale.			
*Height dimensions are approximate & maybe subject to change.			25.10.22



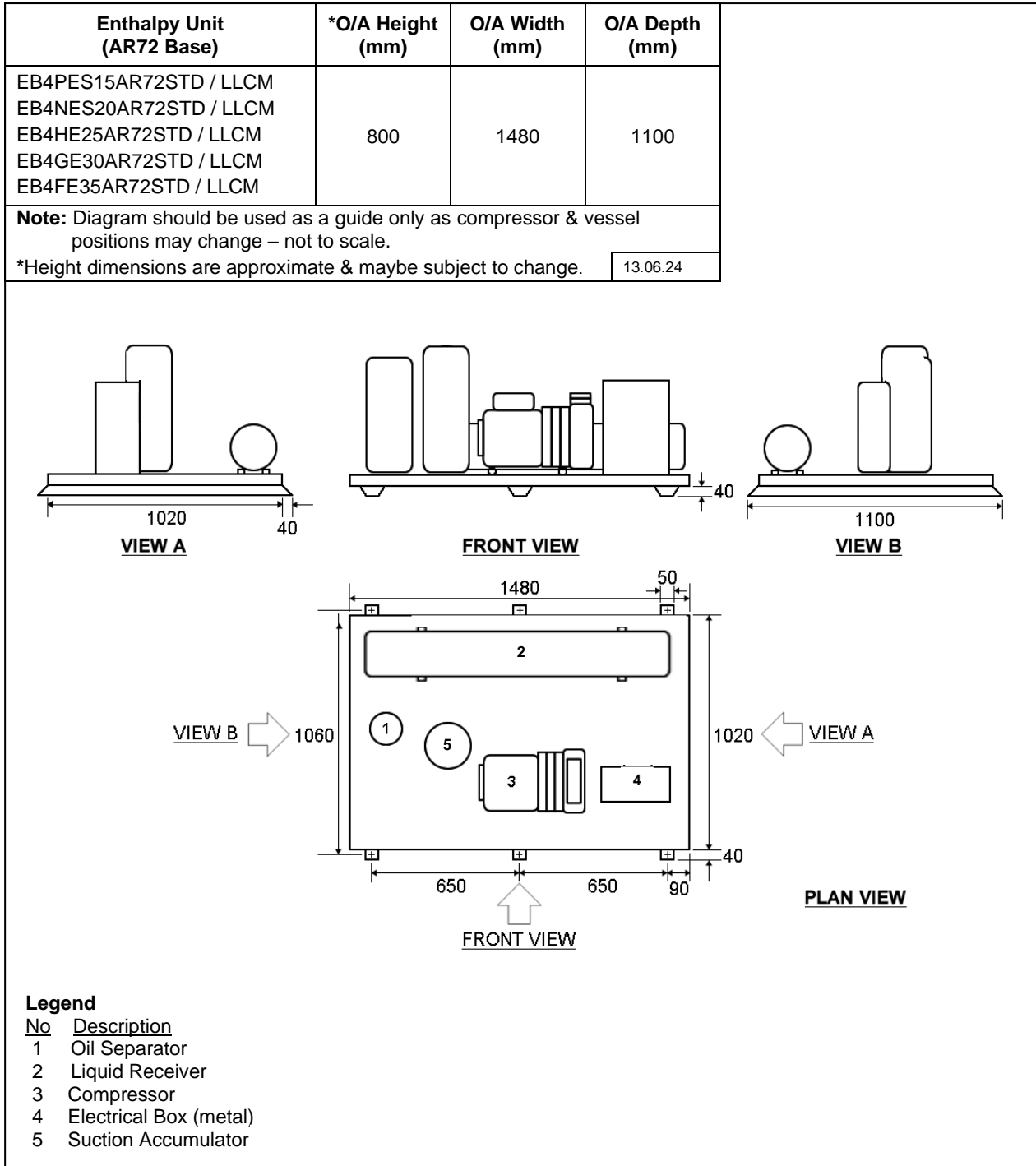
Legend

- | No | Description |
|----|------------------------|
| 1 | Oil Separator |
| 2 | Liquid Receiver |
| 3 | Compressor |
| 4 | Electrical Box (metal) |
| 5 | Suction Accumulator |

ENTHALPY EB SERIES BASIC UNITS

EB Semi Hermetic Basic Unit Dimensions (cont'd)

Drawing B



ENTHALPY EB SERIES BASIC UNITS

EB Semi Hermetic Basic Unit Spare Parts (cont'd)

Part Description	Unit Model			
	EB4DES7AR72STD	EB4CES9AR72STD	EB4TES12AR72STD	EB4PES15AR72STD
Compressor - Bitzer	4DES7Y	4CES9Y	4TES12Y	4PES15Y
Dual Pressure Control	DNSD306X	DNSD306X	DNSD306X	DNSD306X
Compressor Contactor	MC22B240V	MC32A240V	MC22B240V (x2)	MC22B240V (x2)
Compressor Overload	GMP223P22A	GMP403P40A	GMP223P22A (x2)	GMP223P22A (x2)
Control Circuit Breaker	PLSMD10	PLSMD10	PLSMD10	PLSMD10
Oil Separator	EOS1007	EOS1007	EOS1007	EOS1011
Liquid Receiver	1320620A	1320620A	1320620A	HHR018
Receiver Outlet Valve	R051FB2DS	R051FB2DS	R051FB2DS	R052FB4DS
Receiver Inlet Valve	-	-	-	R052FB7DS
Liquid Drier Core	RCA48	RCA48	RCA48	RCA48
Liquid Sight Glass	SA15S	SA15S	SA15S	SA16S
Electrical Box	EUR604015	EUR604015	EUR604015	EUR604015
Suction Accumulator	1010853P	1010854P	1010854P	1010854P
Timer - Part Wind Start	-	-	CRM93H	CRM93H
Oil Level Monitor	34733403 (OLC-K1)	34733403 (OLC-K1)	34733403 (OLC-K1)	34733403 (OLC-K1)

Part Description	Unit Model			
	EB4NES20AR72STD	EB4HE25AR72STD	EB4GE30AR72STD	EB4FE35AR72STD
Compressor - Bitzer	4NES20Y	4HE25Y	4GE30Y	4FE35Y
Dual Pressure Control	DNSD306X	DNSD306X	DNSD306X	DNSD306X
Compressor Contactor	MC22B240V (x2)	MC32A240V (x2)	MC32A240V (x2)	MC40A240V (x2)
Compressor Overload	GMP223P22A (x2)	GMP403P40A (x2)	GMP403P40A (x2)	GMP403P40A (x2)
Control Circuit Breaker	PLSMD10	PLSMD10	PLSMD10	PLSMD10
Oil Separator	EOS1011	1030122U	1030122U	1030122U
Liquid Receiver	HHR018	HHR018	HHR018	HHR018
Receiver Outlet Valve	R052FB4DS	R052FB7DS	R052FB7DS	R052FB7DS
Receiver Inlet Valve	R052FB7DS	R053FB7DS	R053FB7DS	R053FC2DS
Liquid Drier Core	RCA48	RCA48	RCA48	RCA48
Sight Glass	SA16S	SA17S	SA17S	SA17S
Electrical Box	EUR604015	EUR604015	EUR604015	EUR604015
Suction Accumulator	1010854P	3100348615	3100348615	3100348615
Timer - Part Wind Start	CRM93H	CRM93H	CRM93H	CRM93H
Oil Level Monitor	34733403 (OLC-K1)	34731911 (DELTA PII)	34731911 (DELTA PII)	34731911 (DELTA PII)

ENTHALPY EB SERIES BASIC UNITS

EB Semi Hermetic Basic Unit Spare Parts (cont'd)

Part Description	Unit Model			
	EB4DES7AR72LLCM	EB4CES9AR72LLCM	EB4TES12AR72LLCM	EB4PES15AR72LLCM
Compressor - Bitzer	4DES7Y	4CES9Y	4TES12Y	4PES15Y
Comp Head Cool Fan	34302129	34302129	34302127	34302127
CRII Controller (Carel)	DN33E9HR20	DN33E9HR20	DN33E9HR20	DN33E9HR20
LP Press Transducer	SPKT0143P0	SPKT0143P0	SPKT0143P0	SPKT0143P0
HP Press Transducer	SPKT0033P0	SPKT0033P0	SPKT0033P0	SPKT0033P0
LP Control (Sagi.)	SNSC106X	SNSC106X	SNSC106X	SNSC106X
HP Control (Sagi.)	SNSC130X	SNSC130X	SNSC130X	SNSC130X
Comp Contactor	MC22B240V	MC32A240V	MC22B240V (x2)	MC22B240V (x2)
Compressor Overload	GMP223P22A	GMP403P40A	GMP223P22A (x2)	GMP223P22A (x2)
Control Circuit Breaker	PLSMD4 (x2)	PLSMD4 (x2)	PLSMD4 (x2)	PLSMD4 (x2)
Oil Sep with Reservoir	30718E1	30722E2	30722E2	30722E2
Deka Oil Level Reg.	308COM1230	308COM1230	308COM1230	308COM1230
Oil Strainer (Sporlan)	SH9105	SH9105	SH9105	SH9105
Liquid Receiver	1320620A	1320620A	1320620A	HHR018
Receiver Outlet Valve	R051FB2DS	R051FB2DS	R051FB2DS	R052FB4DS
Receiver Inlet Valve	-	-	-	R052FB7DS
Liquid Drier Core	RCA48	RCA48	RCA48	RCA48
Liquid Sight Glass	SA15S	SA15S	SA15S	SA16S
Electrical Box	EUR604015	EUR604015	EUR604015	EUR604015
Suction Accumulator	1010853P	1010854P	1010854P	1010854P
Oil Level Monitor	34731602 (OLC-D1)	34731602 (OLC-D1)	34731602 (OLC-D1)	34731602 (OLC-D1)

Part Description	Unit Model			
	EB4NES20AR72LLCM	EB4HE25AR72LLCM	EB4GE30AR72LLCM	EB4FE35AR72LLCM
Compressor - Bitzer	4NES20Y	4HE25Y	4GE30Y	4FE35Y
Comp Head Fan	34302127	34302124	34302124	34302124
CRII Controller (Carel)	DN33E9HR20	DN33E9HR20	DN33E9HR20	DN33E9HR20
LP Press Transducer	SPKT0143P0	SPKT0143P0	SPKT0143P0	SPKT0143P0
HP Press Transducer	SPKT0033P0	SPKT0033P0	SPKT0033P0	SPKT0033P0
LP Control (Sagi)	SNSC106X	SNSC106X	SNSC106X	SNSC106X
HP Control (Sagi)	SNSC130X	SNSC130X	SNSC130X	SNSC130X
Comp Contactor	MC22B240V (x2)	MC32A240V (x2)	MC32A240V (x2)	MC40A240V (x2)
Compressor Overload	GMP223P22A (x2)	GMP403P40A (x2)	GMP403P40A (x2)	GMP403P40A (x2)
Control Circuit Breaker	PLSMD4 (x2)	PLSMD4 (x2)	PLSMD4 (x2)	PLSMD4 (x2)
Oil Sep with Reservoir	30722E2	30722E2	30722E2	30722E2
Deka Oil Level Reg.	308COM1230	308COM1230	308COM1230	308COM1230
Oil Strainer (Sporlan)	SH9105	SH9105	SH9105	SH9105
Liquid Receiver	HHR018	HHR018	HHR018	HHR018
Receiver Outlet Valve	R052FB4DS	R052FB7DS	R052FB7DS	R052FB7DS
Receiver Inlet Valve	R052FB7DS	R053FB7DS	R053FB7DS	R053FC2DS
Liquid Drier Core	RCA48	RCA48	RCA48	RCA48
Sight Glass	SA16S	SA17S	SA17S	SA17S
Electrical Box	EUR604015	EUR604015	EUR604015	EUR604015
Suction Accumulator	1010854P	3100348615	3100348615	3100348615
Oil Level Monitor	34731602 (OLC-D1)	34739401 (DELTA PI)	34739401 (DELTA PI)	34739401 (DELTA PI)

ENTHALPY EB SERIES BASIC UNITS

Shipping Dimensions & Weights

STD – EB Basic Units

Unit Model	Overall Dimensions (mm)			Shipping Weight (KG)
	Depth	Width	Height	
EB4DES7AR72STD	1100	1600	1120	tba
EB4CES9AR72STD	1100	1600	1120	tba
EB4TES12AR72STD	1100	1600	1120	tba
EB4PES15AR72STD	1100	1600	1120	tba
EB4NES20AR72STD	1100	1600	1120	tba
EB4HE25AR72STD	1100	1600	1120	tba
EB4GE30AR72STD	1100	1600	1120	tba
EB4FE35AR72STD	1100	1600	1120	tba

LLCM – EB Basic Units

Unit Model	Overall Dimensions (mm)			Shipping Weight (KG)
	Depth	Width	Height	
EB4DES7AR72LLCM	1100	1600	1120	tba
EB4CES9AR72LLCM	1100	1600	1120	tba
EB4TES12AR72LLCM	1100	1600	1120	tba
EB4PES15AR72LLCM	1100	1600	1120	tba
EB4NES20AR72LLCM	1100	1600	1120	tba
EB4HE25AR72LLCM	1100	1600	1120	tba
EB4GE30AR72LLCM	1100	1600	1120	tba
EB4FE35AR72LLCM	1100	1600	1120	tba