

# DATA SHEET

## HEAT PUMPS FOR OUTDOOR POOLS SUMMER SEASON (AL, BL)

MODEL	Units	AW631	AW831	AW1231	AW1531
<b>HEAT TO POOL WATER</b>					
AMBIENT 10°C, WATER 24°C :-	kWhr	7.7	10.5	13.8	18.5
AMBIENT 20°C, WATER 24°C :-	kWhr	10.3	13.8	17.5	24.0
<b>ELECTRICAL</b>					
ELECTRICAL SUPPLY 1 PHASE		230V~1N/50Hz			
ELECTRICAL SUPPLY 3 PHASE		400V~3N/50Hz			
TOTAL POWER CONSUMED:-					
AMBIENT 10°C, WATER 24°C :-	kWhr	1.8	2.3	3.1	4.2
AMBIENT 20°C, WATER 24°C :-	kWhr	2.0	2.5	3.3	4.3
MIN SUPPLY CAPACITY (Max F.L.A.) 1 ph N:-	amps	14.0	16.0	19.0	N/A
MIN SUPPLY CAPACITY (Max F.L.A.) 3 ph N:-	amps	6.0	7.0	8.0	13.0
MAX SUPPLY FUSE 1 ph N:-	amps	20.0	25.0	30.0	N/A
MAX SUPPLY FUSE 3 ph N:-	amps	10.0	10.0	15.0	18.0
<b>WATER FLOWS ETC</b>					
POOL WATER FLOW RATE:-	litres/min	115	115	160	160
POOL WATER PRESSURE DROP (@ Rated Flow):-	metres hd	1.1	1.1	2.9	2.9
MAX WORKING PRESSURE POOL WATER:-	bar	3.5	3.5	3.5	3.5
POOL WATER CONNECTIONS:-	inches	1 1/2" BSPM	1 1/2" BSPM	1 1/2" BSPM	1 1/2" BSPM
CONDENSATE DRAIN CONNECTIONS:-	inches	3/4" BSPM STUD	3/4" BSPM STUD	3/4" BSPM STUD	3/4" BSPM STUD
<b>COMPRESSOR</b>					
NOMINAL POWER CONSUMED:-	kWhr	1.8	2.14	2.6	3.8
LRA- 1 ph N:-	amps	61	76	100	N/A
RLA- 1 ph N:-	amps	11	13	15	N/A
SOFT START AMPS 1 ph N:-	amps	28	31	34	N/A
LRA- 3ph N:-	amps	32	40	46	66
RLA- 3 ph N:-	amps	4	5	5.6	8.5
SOFT START AMPS 3 ph N:-	amps	14	16	16	29
<b>MAIN FAN</b>					
AIR FLOW (Anemometer @ air on grille. Wet evaporator):-	m³/hr	1800	2700	3000	4700
MAX EXTERNAL STATIC PRESSURE :-	mm Wg	0	0	0	0
FLA- 1 ph N:-	amps	0.7	0.7	0.97	2
<b>GENERAL DATA</b>					
GAS CHARGE R407c	kg	1.65	1.85	2.2	2.45
<b>PHYSICAL DIMENSIONS</b>					
WIDTH (Un-packed):-	mm	1076	1076	1076	1200
DEPTH (Un-packed):-	mm	485	485	485	485
HEIGHT (Un-packed):-	mm	1255	1255	1355	1355
WEIGHT (Un-packed) :-	kg	126	134	144	158

For Accurate Application Sizing Consult CALOREX Heat Pumps Ltd.

### NOTES:-

- 1) Weight and dimensions nett
- 2) Performance design limitations  
Ambient = 7°C min, 40°C max  
Water = 10°C min, 40°C max
- 3) Pool water to have correct balance, pH 7.4 ± 0.4 Free Chlorine 1.0 - 3.0 ppm
- 4) Allow 500mm clearance to service panels
- 5) Calorex reserve the right to change or modify models without prior notice

1mm WG = 9.8 Pa  
1m hd = 1.4 psi  
1L/min = 0.22 gall/min

## HEAT PUMPS FOR OUTDOOR POOLS REVERSE CYCLE DEFROST (ALY, BLY)

MODEL	Units	AW631	AW831	AW1231	AW1531
<b>HEAT TO POOL WATER</b>					
HEAT TO POOL WATER					
AMBIENT 10°C, WATER 24°C :-	kWhr	7.2	9.9	12.4	17.7
<b>ELECTRICAL</b>					
ELECTRICAL SUPPLY 1 PHASE		----- 230V~1N/50Hz -----			
ELECTRICAL SUPPLY 3 PHASE		----- 400V~3N/50Hz -----			
TOTAL POWER CONSUMED:-					
AMBIENT 10°C, WATER 24°C :-	kWhr	1.8	2.3	3.1	4.2
AMBIENT 20°C, WATER 24°C :-	kWhr	2.0	2.5	3.3	4.3
MIN SUPPLY CAPACITY (Max F.L.A.) 1 ph N:-	amps	14.0	16.0	19.0	N/A
MIN SUPPLY CAPACITY (Max F.L.A.) 3 ph N:-	amps	6.0	7.0	8.0	11.0
MAX SUPPLY FUSE 1 ph N:-	amps	20.0	25.0	30.0	N/A
MAX SUPPLY FUSE 3 ph N:-	amps	10.0	10.0	15.0	18.0
<b>WATER FLOWS ETC</b>					
POOL WATER FLOW RATE:-	litres/min	115	115	160	160
POOL WATER PRESSURE DROP (@ Rated Flow):-	metres hd	1.0	1.0	2.0	2.0
MAX WORKING PRESSURE POOL WATER:-	bar	3.5	3.5	3.5	3.5
POOL WATER CONNECTIONS:-	inches	1 1/2" BSPM	1 1/2" BSPM	1 1/2" BSPM	1 1/2" BSPM
CONDENSATE DRAIN CONNECTIONS:-	inches	3/4" BSPM STUD	3/4" BSPM STUD	3/4" BSPM STUD	3/4" BSPM STUD
<b>COMPRESSOR</b>					
NOMINAL POWER CONSUMED:-	kWhr	1.9	2.4	3.1	4.4
LRA- 1 ph N:-	amps	61	76	100	N/A
RLA- 1 ph N:-	amps	11	13	15	N/A
SOFT START AMPS 1 ph N:-	amps	28	31	34	N/A
LRA- 3ph N:-	amps	32	40	46	66
RLA- 3 ph N:-	amps	4	5	5.6	8.5
SOFT START AMPS 3 ph N:-	amps	14	16	16	29
<b>MAIN FAN</b>					
AIR FLOW (Anemometer @ air on grille. Wet evaporator):-	m <sup>3</sup> /hr	1800	2700	3000	4700
MAX EXTERNAL STATIC PRESSURE :-	mm Wg	0	0	0	0
FLA- 1 ph N:-	amps	0.6	0.6	0.8	1.6
<b>GENERAL DATA</b>					
GAS CHARGE R407c	kg	2.36	3.0	4.3	4.5
<b>PHYSICAL DIMENSIONS</b>					
WIDTH (Un-packed):-	mm	1076	1076	1076	1200
DEPTH (Un-packed):-	mm	485	485	485	485
HEIGHT (Un-packed):-	mm	1255	1255	1355	1355
WEIGHT (Un-packed) :-	kg	133	142	157	170

For Accurate Application Sizing Consult CALOREX Heat Pumps Ltd.

### NOTES:-

- 1) Weight and dimensions nett
- 2) Performance design limitations  
Ambient = -15°C min, 35°C max  
Water = 10°C min, 40°C max
- 3) Pool water to have correct balance, pH 7.4 ± 0.4 Free Chlorine 1.0 - 3.0 ppm
- 4) Allow 500mm clearance to service panels
- 5) Calorex reserve the right to change or modify models without prior notice

1mm WG = 9.8 Pa  
1m hd = 1.4 psi  
1L/min = 0.22 gall/min