

# Technical Data Sheet

Compressor model **HUY55MAb**  
 Voltage **220-240V 50Hz ~1**  
 Refrigerant **R600a**

## APPLICATION

## COMPRESSOR

## MOTOR

Application	High-Medium Back Pressure	Displacement	5,50 cm <sup>3</sup>	Nominal Power	1/10 hp
Refrigerant	R600a	Diameter	21,99 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	14,50 mm	Voltage range	187-255 V
Expansion	Capillar	Net Weight	9,05 Kg	Type	RSCR
Comp. Cooling	Static	Oil type	ISO VG 7 MINER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	200 cm <sup>3</sup>	Locked Rotor Amps (LRA)	4,40 A
				Max. Cont. Current (MCC)	0,90 A
				Main W. resist. at 25°C	26,16 Ω
				Start W. resist. at 25°C	15,10 Ω

## NOMINAL PERFORMANCE

## APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	278 kCal/h	272 W
COP	2,99 W/W	2,58 W/W
EER	2,57 kCal/Wh	2,23 kCal/Wh
Input Power	108 W	105 W
Current	0,57 A	0,56 A

## TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T <sub>e</sub> )	7,2 °C	5,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	46,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	35,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	35,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

## ELECTRICAL COMPONENTS

Run capacitor	3 μF 400 V			
Relay	Option 1			
Reference	PTC K100			
Voltage	200-240 V			
Resistance	14.00 Ω			
Protector	Option 1	Option 2		
Reference	AE24AHS	B41-110		
Current	4,10 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	110,00 / 62,00 °C			

This product is approved for R290 and R600a regarding explosion safety according to standard EN 60335-1 and EN 60335-2-34

## ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	75	58	0,37	1,50	1,29
40	-20	100	64	0,39	1,83	1,58
40	-15	131	69	0,42	2,21	1,90
40	-10	168	74	0,44	2,62	2,25
40	-5	209	80	0,46	3,06	2,63
40	0	257	85	0,48	3,52	3,03
40	5	310	90	0,50	4,01	3,45
40	7,2	335	92	0,51	4,24	3,64
40	10	368	95	0,52	4,52	3,89

45	-25	70	59	0,37	1,39	1,19
45	-20	93	65	0,40	1,67	1,43
45	-15	122	71	0,42	1,99	1,71
45	-10	156	77	0,45	2,35	2,02
45	-5	196	83	0,47	2,73	2,35
45	0	241	89	0,49	3,15	2,70
45	5	292	95	0,52	3,58	3,08
45	7,2	316	97	0,53	3,78	3,25
45	10	348	100	0,54	4,03	3,47

50	-25	65	59	0,38	1,27	1,10
50	-20	86	66	0,40	1,51	1,29
50	-15	112	73	0,43	1,78	1,53
50	-10	145	80	0,46	2,10	1,80
50	-5	182	87	0,49	2,44	2,10
50	0	225	93	0,51	2,80	2,41
50	5	274	100	0,54	3,19	2,74
50	7,2	297	103	0,55	3,36	2,89
50	10	328	106	0,56	3,59	3,09

55	-25	60	60	0,38	1,16	1,00
55	-20	79	68	0,41	1,35	1,16
55	-15	103	75	0,44	1,59	1,37
55	-10	133	83	0,47	1,86	1,60
55	-5	168	90	0,50	2,17	1,86
55	0	209	98	0,53	2,49	2,14
55	5	256	105	0,56	2,84	2,44
55	7,2	278	108	0,57	2,99	2,57
55	10	308	112	0,59	3,20	2,75

60	-25	55	61	0,38	1,05	0,91
60	-20	72	69	0,42	1,20	1,04
60	-15	94	78	0,45	1,41	1,21
60	-10	121	86	0,48	1,65	1,42
60	-5	155	94	0,51	1,91	1,65
60	0	193	102	0,55	2,21	1,90
60	5	238	110	0,58	2,52	2,16
60	7,2	259	113	0,59	2,66	2,29
60	10	288	118	0,61	2,84	2,44

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	81	58	0,37	1,39	1,20
40	-20	109	64	0,40	1,70	1,47
40	-15	142	69	0,42	2,05	1,77
40	-10	181	75	0,44	2,42	2,09
40	-5	227	80	0,46	2,83	2,44
40	0	278	85	0,48	3,26	2,81
40	5	335	90	0,50	3,70	3,20
40	7,2	362	93	0,51	3,91	3,38
40	10	398	95	0,52	4,17	3,61

45	-25	75	59	0,38	1,28	1,10
45	-20	100	65	0,40	1,54	1,33
45	-15	131	72	0,43	1,83	1,58
45	-10	168	78	0,45	2,16	1,87
45	-5	211	84	0,47	2,52	2,18
45	0	259	90	0,50	2,89	2,50
45	5	314	95	0,52	3,29	2,84
45	7,2	340	98	0,53	3,47	3,00
45	10	374	101	0,54	3,70	3,20

50	-25	70	60	0,38	1,17	1,01
50	-20	92	67	0,41	1,38	1,19
50	-15	121	74	0,43	1,63	1,41
50	-10	155	81	0,46	1,92	1,66
50	-5	195	87	0,49	2,23	1,93
50	0	241	94	0,51	2,57	2,22
50	5	293	100	0,54	2,92	2,52
50	7,2	318	103	0,55	3,08	2,66
50	10	351	107	0,57	3,28	2,84

55	-25	64	60	0,38	1,06	0,91
55	-20	84	68	0,41	1,23	1,06
55	-15	110	76	0,44	1,45	1,25
55	-10	141	83	0,47	1,70	1,47
55	-5	179	91	0,50	1,97	1,70
55	0	223	98	0,53	2,27	1,96
55	5	272	105	0,56	2,58	2,23
55	7,2	296	109	0,57	2,72	2,35
55	10	327	113	0,59	2,91	2,51

60	-25	58	61	0,38	0,95	0,82
60	-20	76	70	0,42	1,09	0,94
60	-15	99	78	0,45	1,27	1,10
60	-10	128	86	0,48	1,49	1,28
60	-5	163	94	0,52	1,73	1,49
60	0	204	103	0,55	1,99	1,72
60	5	251	111	0,58	2,27	1,96
60	7,2	274	114	0,59	2,40	2,07
60	10	304	118	0,61	2,57	2,22

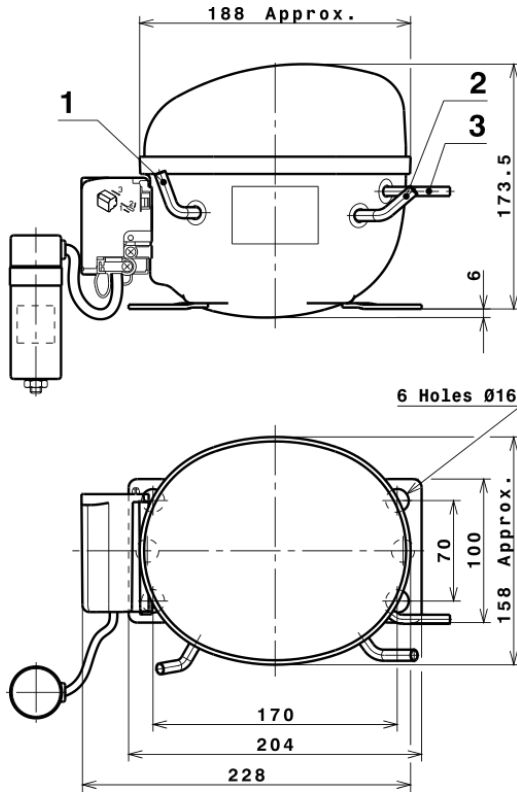
## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	422,3553024430	51,9645229483	0,3445263908	3,9791743629902
2	14,7392736839	-0,1396429077	-0,0006118726	0,15310218307953
3	-3,7601740749	0,8841504664	0,0035561222	-0,016309925671943
4	0,1142930581	-0,0021983894	-0,0000043949	0,0017149826698942
5	-0,1041668868	0,0298894007	0,0001210312	-0,0003938696742221

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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# Technical Data Sheet

## COMPRESSOR DIMENSIONS

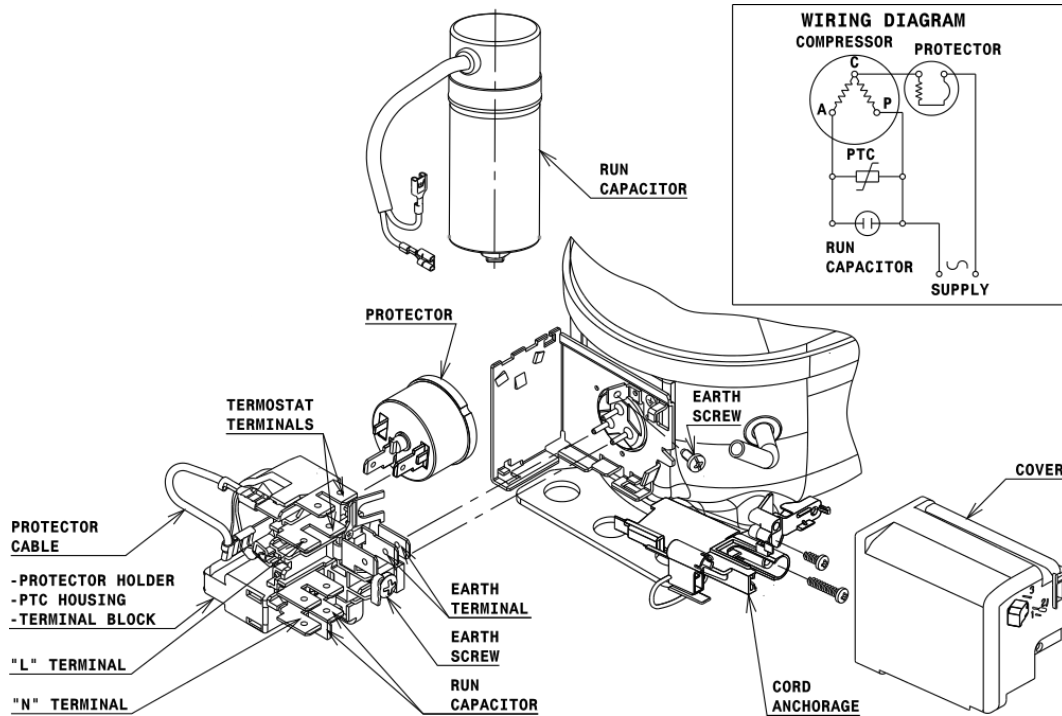


## DESIGNATION INTERNAL DIAM.

1	Service	6,2 mm
2	Suction	6,2 mm
3	Discharge	4,9 mm

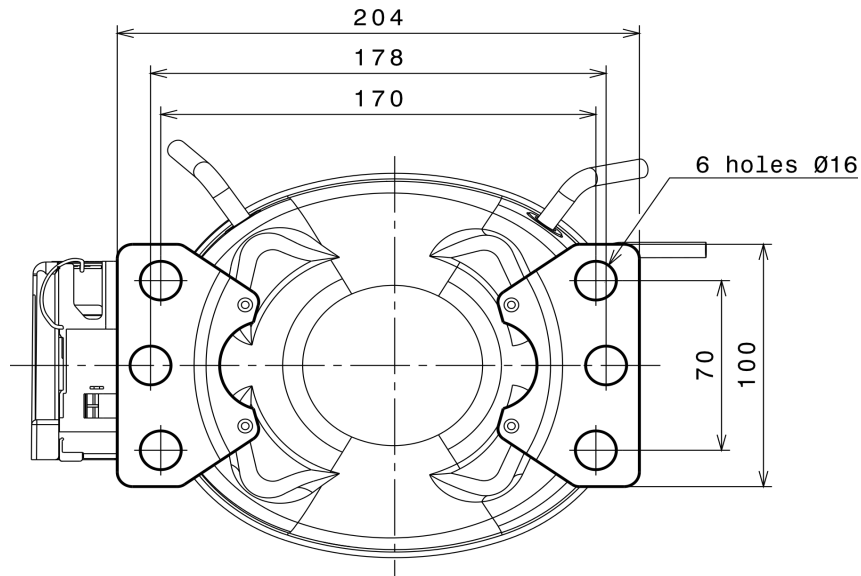
## WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

### RSCR CONNECTION (U range)



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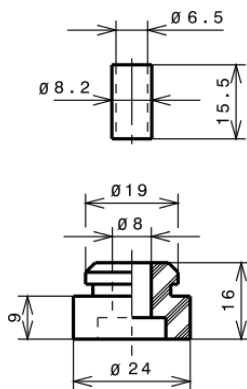
## FIXINGS



## SILENT BLOCKS (MOUNTING ACCESSORIES)

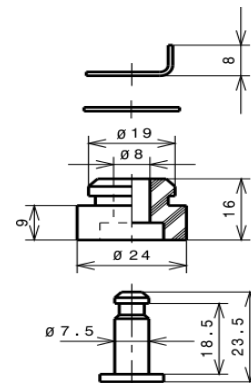
### STANDARD

$\varnothing 16$  holes (170x70 net)



### SNAP-ON

$\varnothing 16$  holes (170x70 net)



## SOA

SOA R600a HMBP

