

MODEL: PA89M1C-4DZDE

R410A 1Φ — 220 V ~ 50 Hz

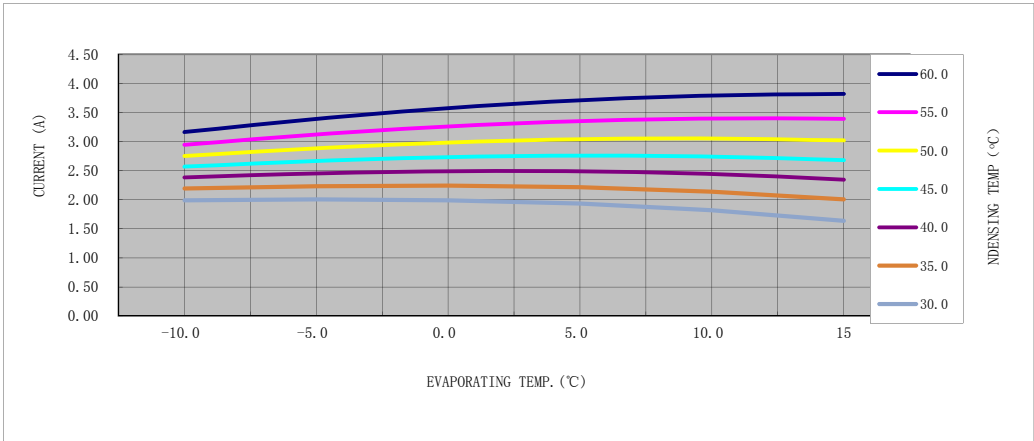
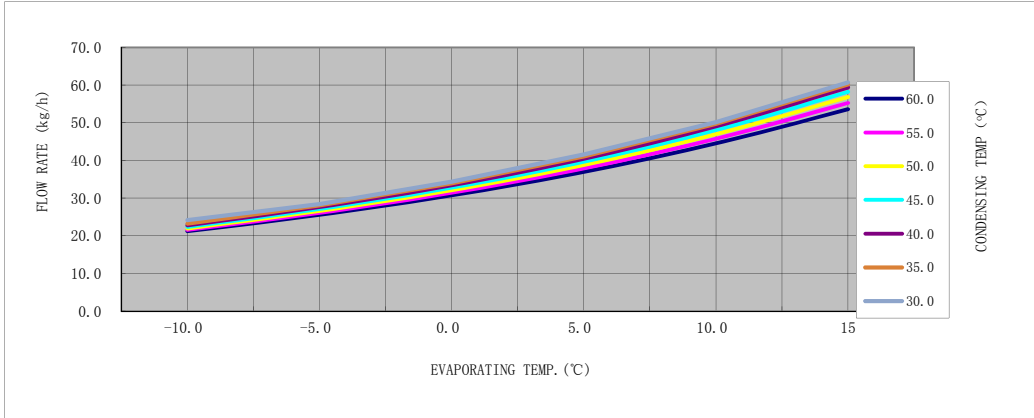
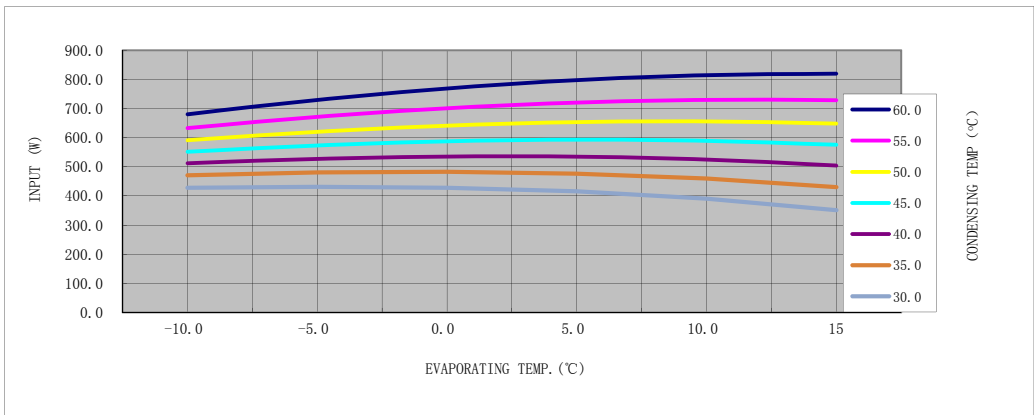
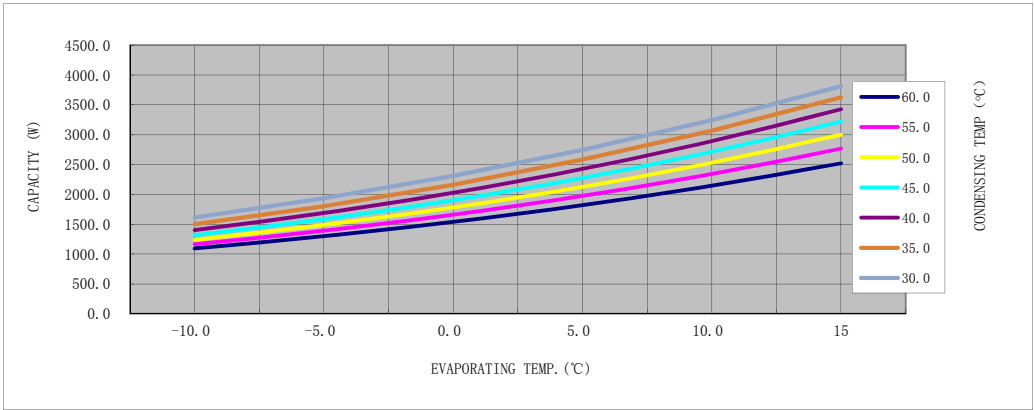
RETURN GAS TEMP. — 35 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

RUNNING CAPACITOR — 25 μF

PERFORMANCE CURVE (ASHRAE)



1、Rated condition data

Model	Displacement	Frequency	Power supply	Running capacitor	Capacity	Input power	Flow rate	Current
	cc	Hz	V	uF	W	W	kg/h	A
PA89M1C-4DZDE	8. 9	50	220	25	2151. 0	714. 0	42. 8	3. 32

2、Data under different condition

Capacity(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60. 0	1093. 6	1298. 9	1539. 1	1819. 9	2144. 5	2520. 0
	55. 0	1164. 7	1392. 5	1660. 4	1974. 7	2340. 0	2766. 5
	50. 0	1237. 1	1486. 3	1780. 0	2125. 2	2529. 1	2999. 6
	45. 0	1315. 2	1583. 3	1901. 2	2275. 4	2712. 1	3219. 1
	40. 0	1400. 6	1687. 7	2027. 6	2426. 5	2890. 3	3426. 3
	35. 0	1498. 3	1803. 3	2162. 9	2582. 1	3067. 0	3623. 4
	30. 0	1612. 5	1934. 6	2311. 4	2747. 4	3246. 5	3812. 8

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60. 0	680. 5	729. 7	769. 1	797. 7	814. 7	819. 7
	55. 0	632. 9	671. 3	700. 8	720. 6	730. 0	728. 3
	50. 0	590. 7	620. 2	641. 3	653. 6	656. 1	648. 3
	45. 0	551. 5	573. 2	587. 4	592. 9	589. 4	575. 5
	40. 0	512. 1	527. 2	535. 0	534. 8	524. 9	503. 8
	35. 0	470. 9	480. 4	482. 5	476. 1	459. 5	430. 3
	30. 0	427. 7	431. 7	428. 2	415. 4	390. 7	351. 1

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60. 0	21. 2	25. 5	30. 7	37. 0	44. 5	53. 6
	55. 0	21. 5	26. 0	31. 4	37. 9	45. 7	55. 3
	50. 0	21. 9	26. 5	32. 1	38. 8	46. 9	56. 8
	45. 0	22. 4	27. 1	32. 8	39. 7	48. 1	58. 2
	40. 0	22. 8	27. 6	33. 4	40. 5	49. 0	59. 4
	35. 0	23. 2	28. 0	34. 0	41. 1	49. 8	60. 2
	30. 0	24. 2	28. 4	34. 4	41. 6	50. 2	60. 7

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60. 0	3. 16	3. 39	3. 57	3. 71	3. 79	3. 82
	55. 0	2. 94	3. 12	3. 26	3. 35	3. 40	3. 39
	50. 0	2. 75	2. 89	2. 98	3. 04	3. 05	3. 02
	45. 0	2. 57	2. 67	2. 73	2. 76	2. 74	2. 68
	40. 0	2. 38	2. 45	2. 49	2. 49	2. 44	2. 35
	35. 0	2. 19	2. 23	2. 24	2. 21	2. 14	2. 00
	30. 0	1. 99	2. 01	1. 99	1. 93	1. 82	1. 64

3、Ten coefficient method

$z = p_1 + p_2 \cdot x + p_3 \cdot y + p_4 \cdot x^2 + p_5 \cdot x \cdot y + p_6 \cdot y^2 + p_7 \cdot x^3 + p_8 \cdot x^2 \cdot y + p_9 \cdot x \cdot y^2 + p_{10} \cdot y^3$
x——Evaporating Temp.(°C); y——Condensing Temp.(°C)

	Capacity(W)	Input Power(W)	Flow Rate(kg/h)	Current(A)
P1	3. 52277461E+03	-1. 70186266E+02	3. 34076825E+01	-7. 68185430E-01
P2	8. 15089723E+01	-7. 55343941E+00	1. 00574653E+00	-3. 26810976E-02
P3	-5. 52829555E+01	3. 14904627E+01	1. 70187792E-01	1. 44406177E-01
P4	1. 63808003E+00	-1. 70844608E-01	3. 28967925E-02	-7. 91430196E-04
P5	4. 37229896E-01	1. 50595274E-01	1. 63364558E-02	5. 83840592E-04
P6	6. 11801258E-01	-5. 08399919E-01	-5. 63503037E-03	-2. 30892842E-03
P7	7. 99024003E-03	-1. 63269874E-03	3. 08675285E-04	-7. 56023233E-06
P8	-1. 27941393E-02	-2. 93113211E-04	-1. 87538596E-04	-1. 05282570E-06
P9	-1. 56931668E-02	1. 44596859E-03	-2. 37958789E-04	8. 04575910E-06
P10	-4. 04597364E-03	4. 06734199E-03	3. 41126462E-05	1. 84444420E-05