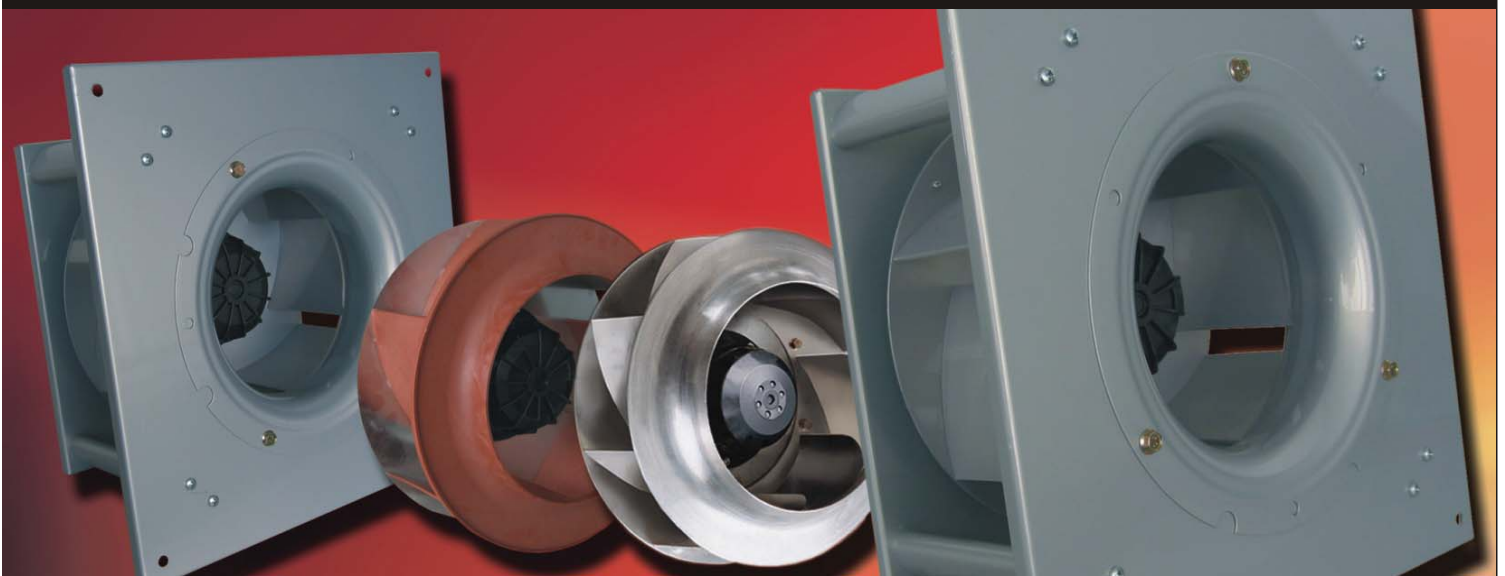


Backward Curved Motorized Impellers

with external rotor motor

H-SERIES / W-SERIES



Rosenberg USA

1503 Rocky River Road North
Monroe, NC 28110

Ph: (704)289-5423
Fax: (704)283-7170

www.rosenbergusa.com
sales@rosenbergusa.com

Reference Code

D K H R 355 - 4 S H . 127 . 4 FF - 001

Current

D = Three phase A.C.
E = Single phase A.C.

KH = Free running impeller with external rotor motor

Type

R = Motor impeller without inlet cone
M = Fan module for assembly

Impeller diameter

355 = 355mm (14 inches)

No. of poles

2=2 F=2-2
4=4 G=4-4
6=6 H=6-6

Cable outlet

S = Flying leads

Type of impeller

H = Backward curved High performance impeller with 6 blades
W = Backward curved High performance impeller with 8 blades

Impeller width

in mm

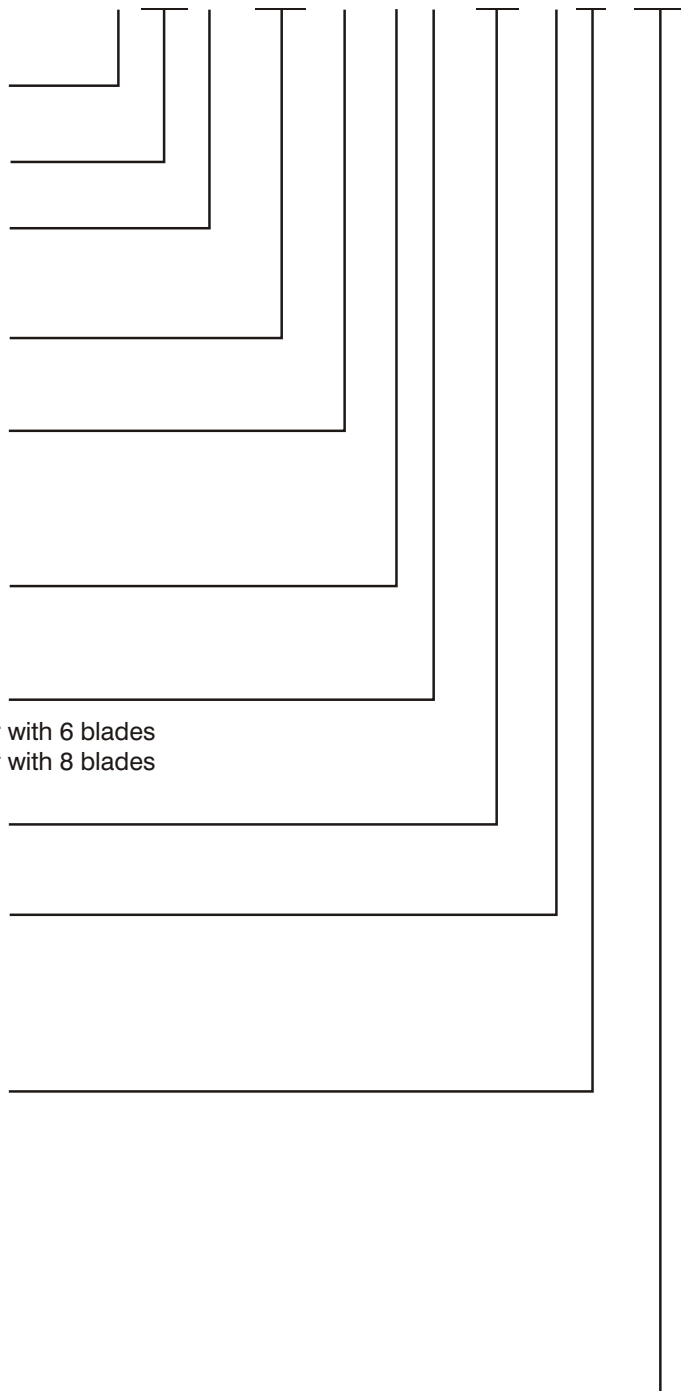
Motor size (Internal Data)

4 = External rotor motor type 080
5 = External rotor motor type 106
6 = External rotor motor type 137
7 = External rotor motor type 165

Package length (Internal Data)

A=0
D=3 e.g. FF = 55 mm
E=4
F=5
H=7
K=9
L=10
N=12

Consecutive number



Characteristics and Construction

Rosenberg Radial Fans with free-running impeller type E/DKHR form a compact and constructively optimal fan unit by combining an external rotor motor and a backward-curved impeller.

During development of the backward curved impeller, Rosenberg attached great importance to high efficiency and at the same time a most optimal sound level.

Fans of this construction are designed for installation in appliances such as air handling units, hygienic units, clean room filter units and air conditioning units.

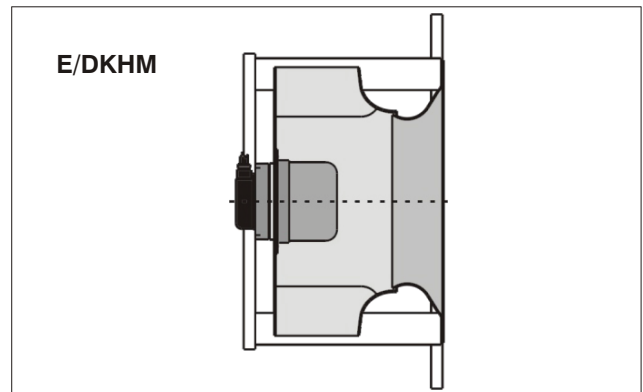
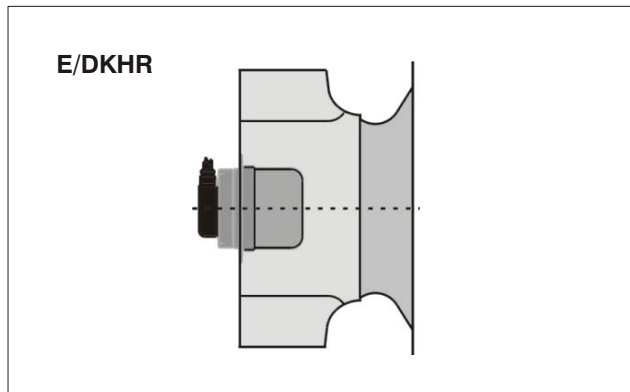
The fans are for clean air application and ventilation of non-aggressive vapors and fumes.

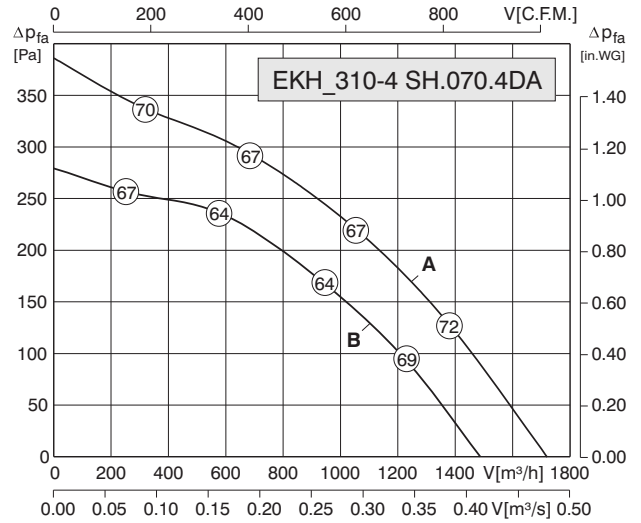
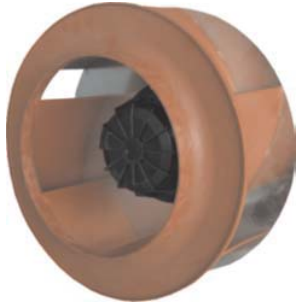
The standard execution is the construction:

- **_KHR** : Motorized impeller without inlet cone (inlet cone as an option)

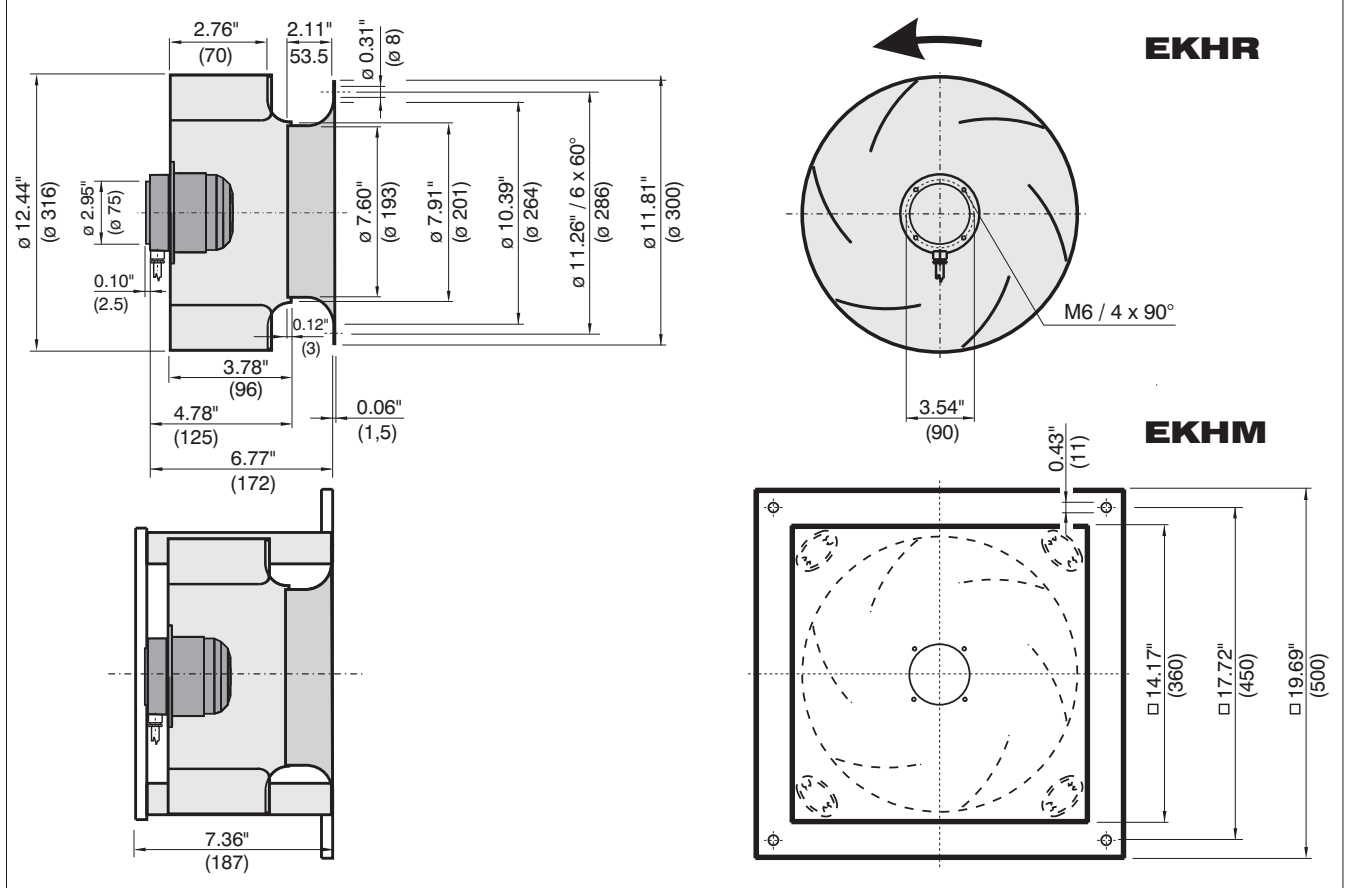
Available on request:

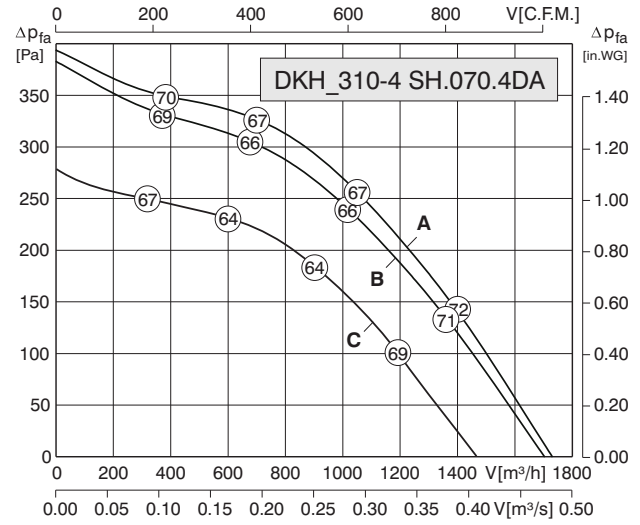
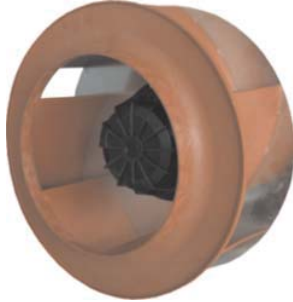
- **_KHM** : Fan module
- Special solutions according to customer requirements (OEM)



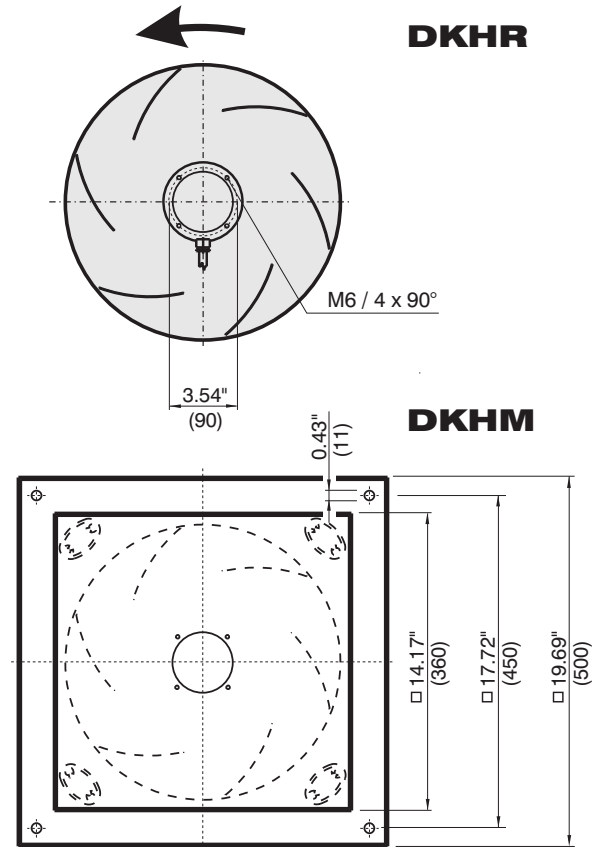
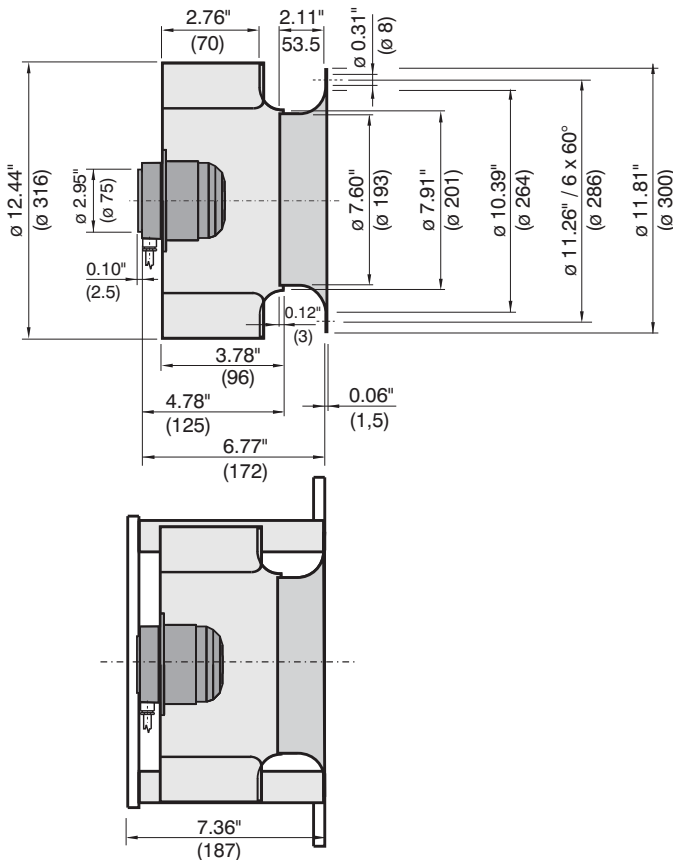


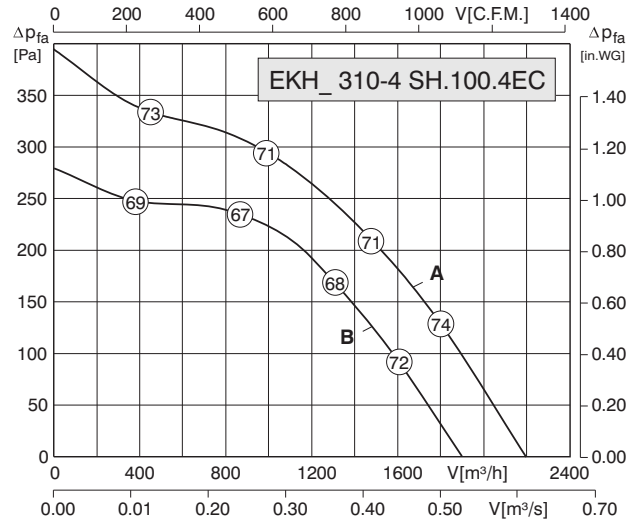
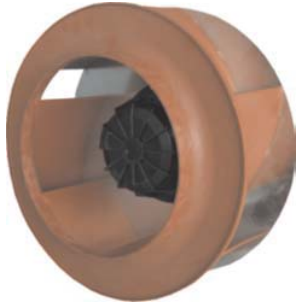
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
1 ~ 115	60	A	0.19	1.54	1550	158	70	12	3	1.9	54	01.024	4 / 12
1 ~ 230	60	A	0.19	0.77	1550	158	70	3	3	1.9	54	01.024	4 / 12
1 ~ 230	50	B	0.13	0.60	1380	158	70	3	8	2.5	54	01.024	4 / 12



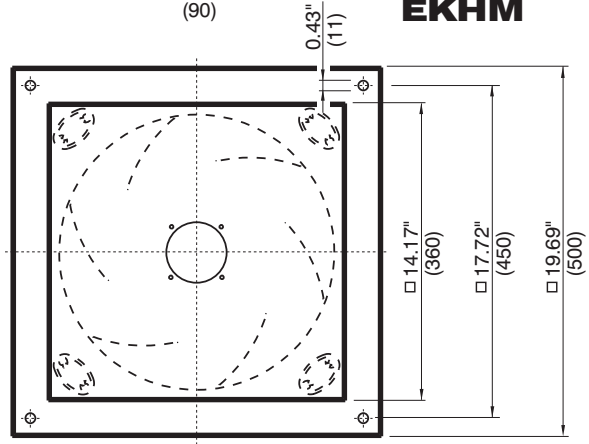
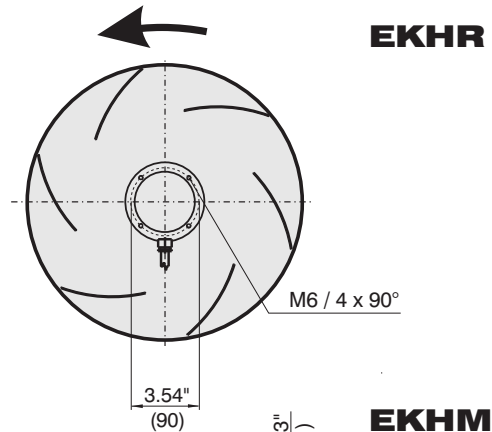
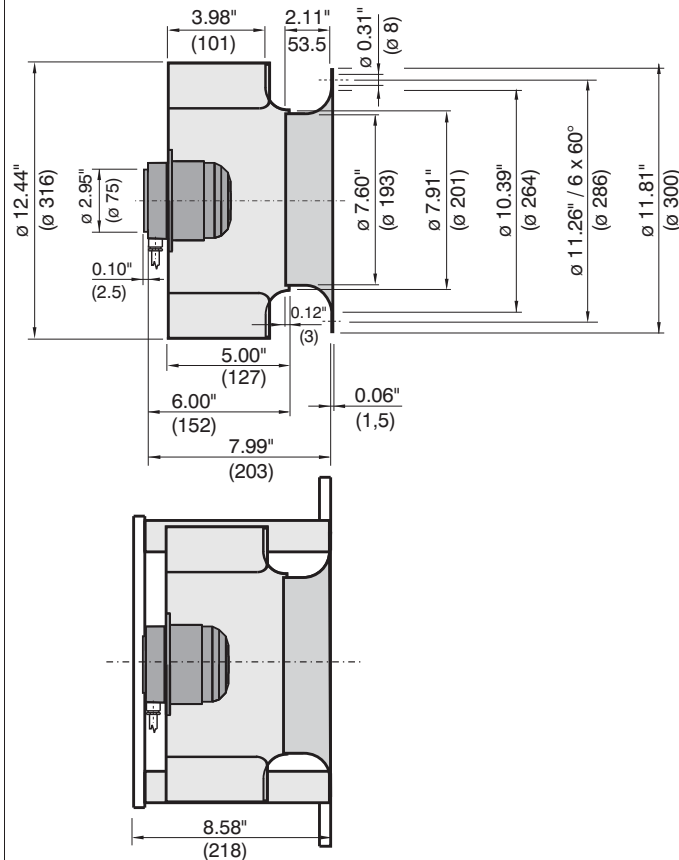


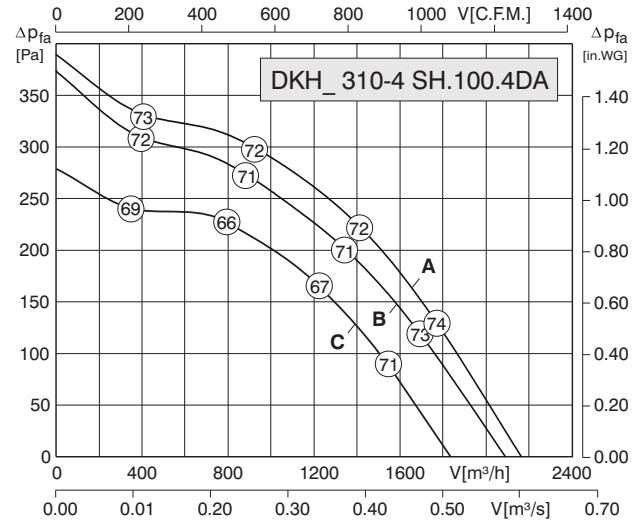
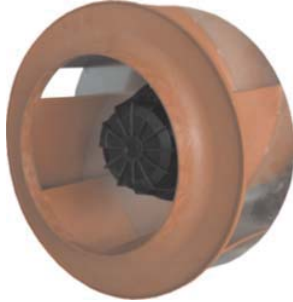
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
3 ~460 Y	60	A	0.195	0.34	1630	158	70	-	-	2.9	54	01.005	4 / 12
3 ~230 Δ	60	B	0.195	0.55	1575	158	70	-	-	2.9	54	01.006	4 / 12
3 ~400 Y	50	C	0.135	0.33	1390	140	60	-	-	2.8	54	01.005	4 / 12



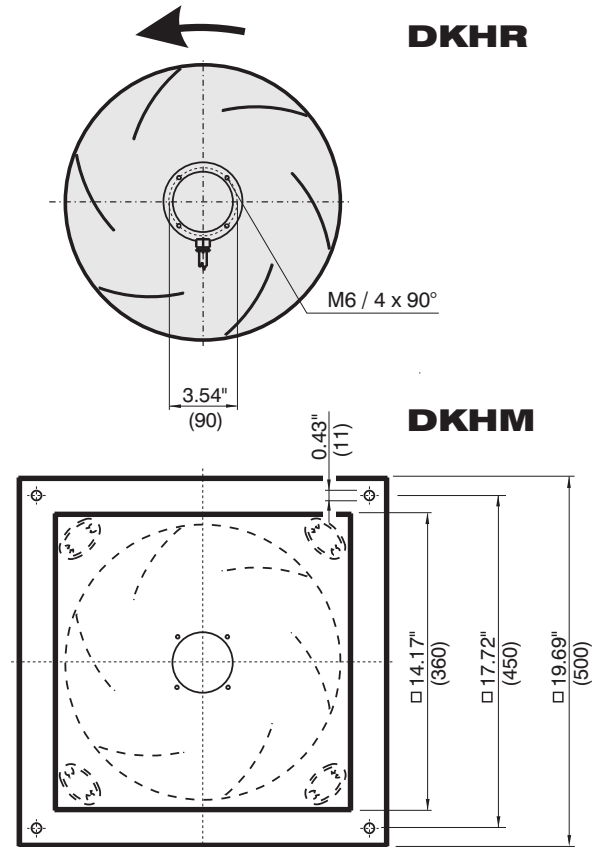
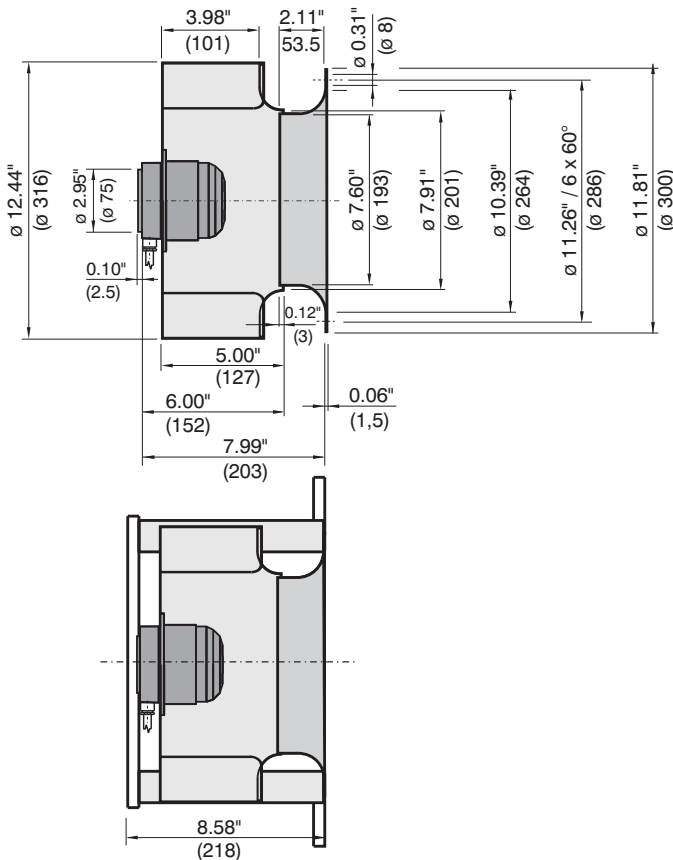


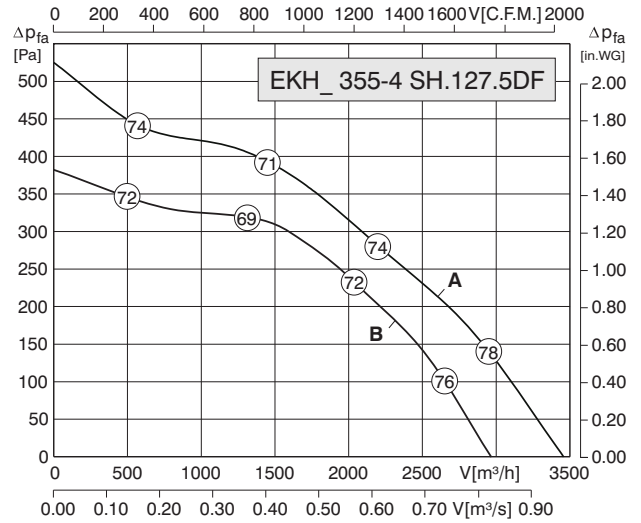
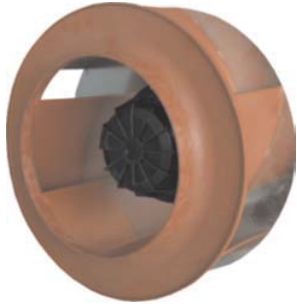
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
1 ~ 115	60	A	0.235	2.10	1560	140	60	16	-	1.9	54	01.024	5 / 13
1 ~ 230	60	A	0.235	1.05	1560	140	60	4	-	1.9	54	01.024	5 / 13
1 ~ 230	50	B	0.180	0.87	1390	158	70	4	23	2.6	54	01.024	5 / 13



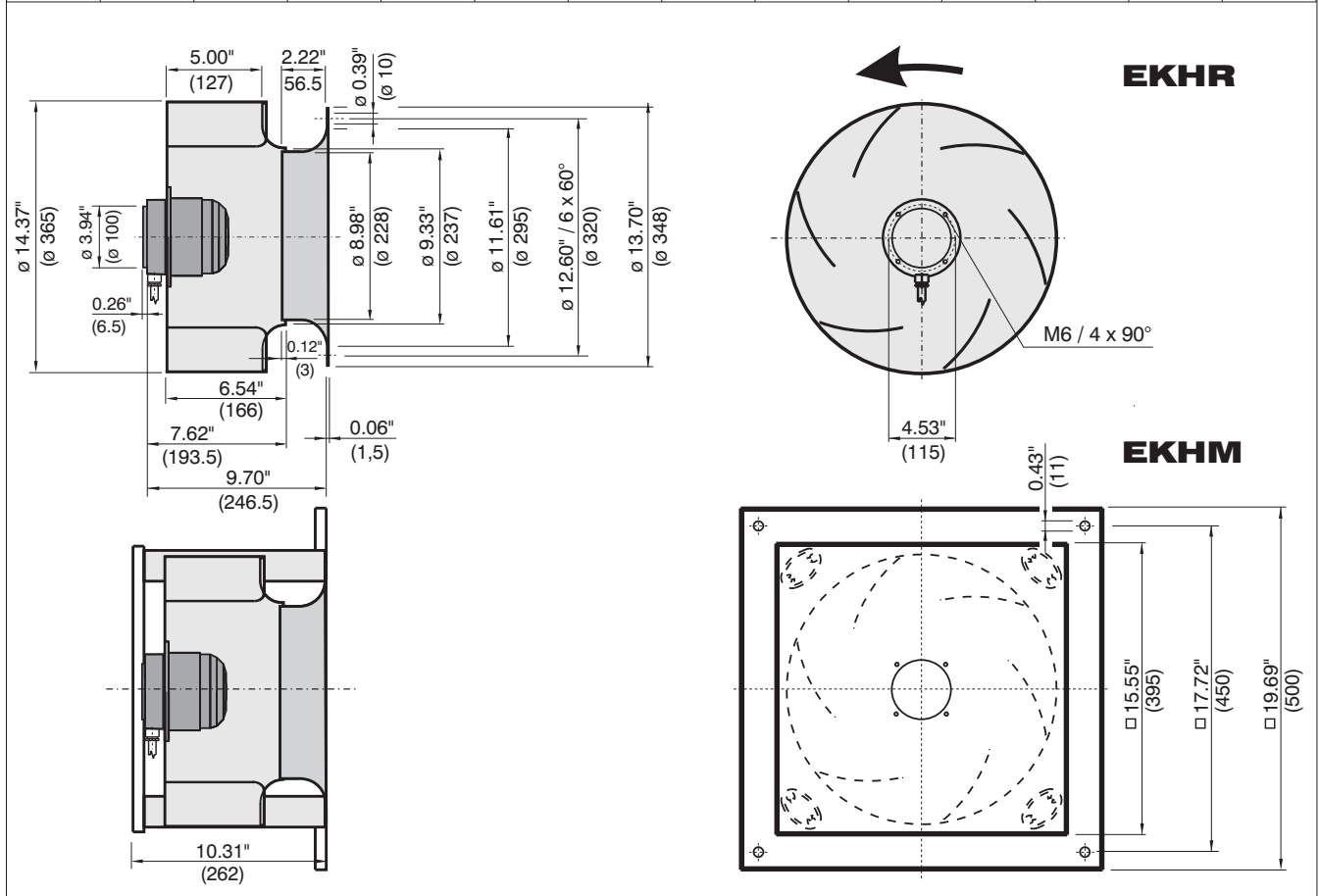


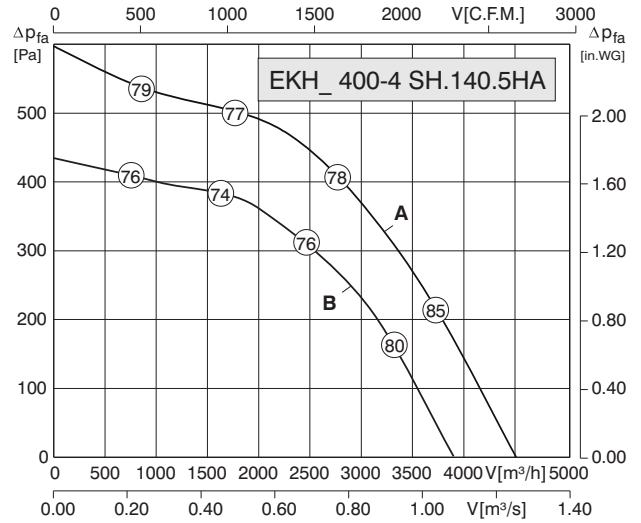
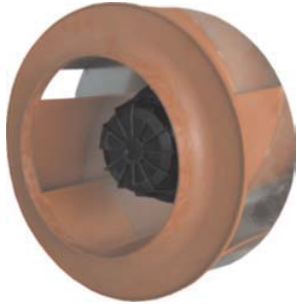
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	📦 [kg]
3 ~460 Y	60	A	0.24	0.38	1560	131	55	-	-	2.5	54	01.005	4 / 12
3 ~230 Δ	60	B	0.22	0.64	1490	149	65	-	-	2.5	54	01.006	4 / 12
3 ~400 Y	50	C	0.16	0.35	1355	149	65	-	-	2.6	54	01.005	4 / 12



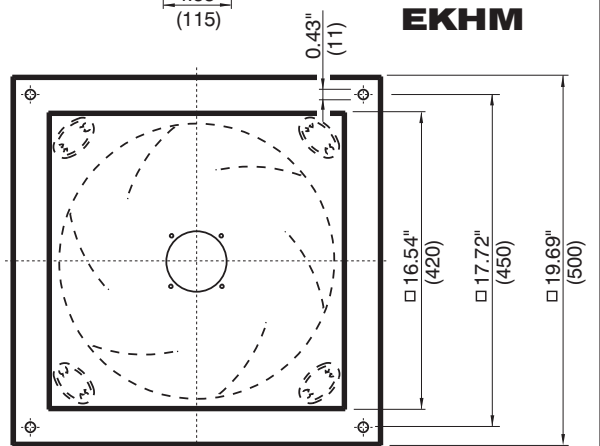
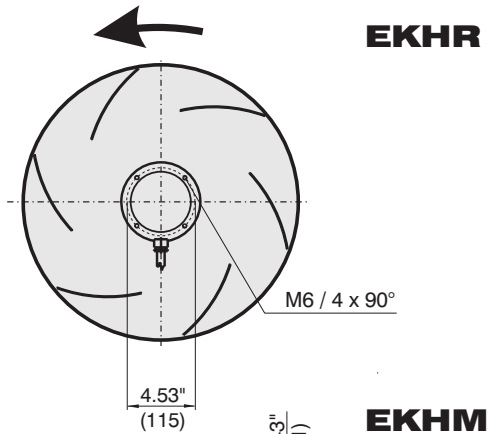
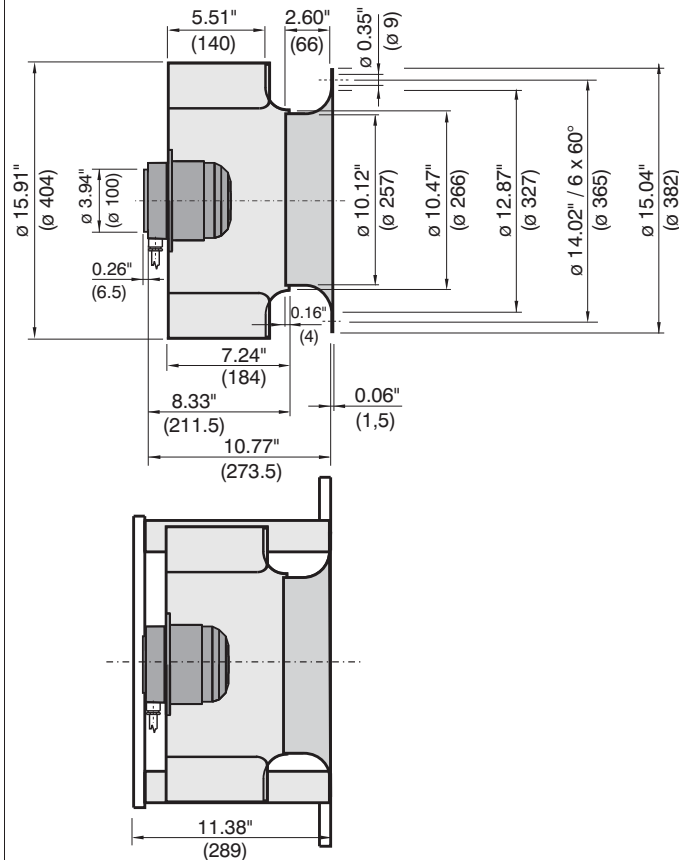


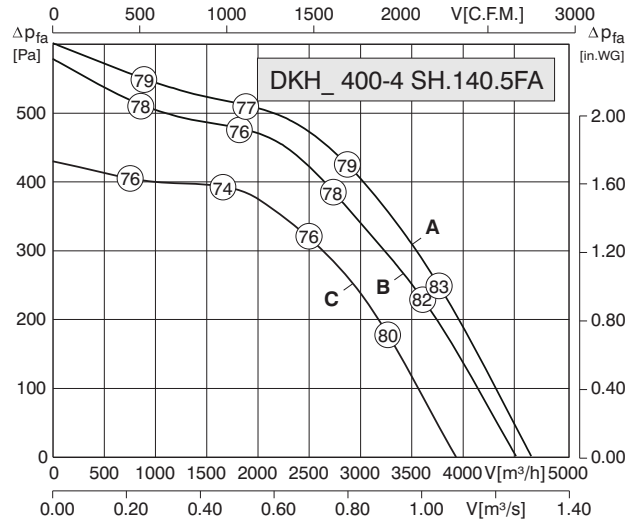
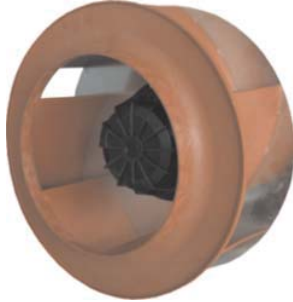
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	★	⊞ [kg]
1 ~ 115	60	A	0.49	4.30	1480	113	45	30	-	1.6	54	01.024	8 / 17
1 ~ 230	60	A	0.49	2.15	1480	113	45	8	-	1.6	54	01.024	8 / 17
1 ~ 230	50	B	0.34	1.50	1360	140	60	8	15	2.5	54	01.024	8 / 17



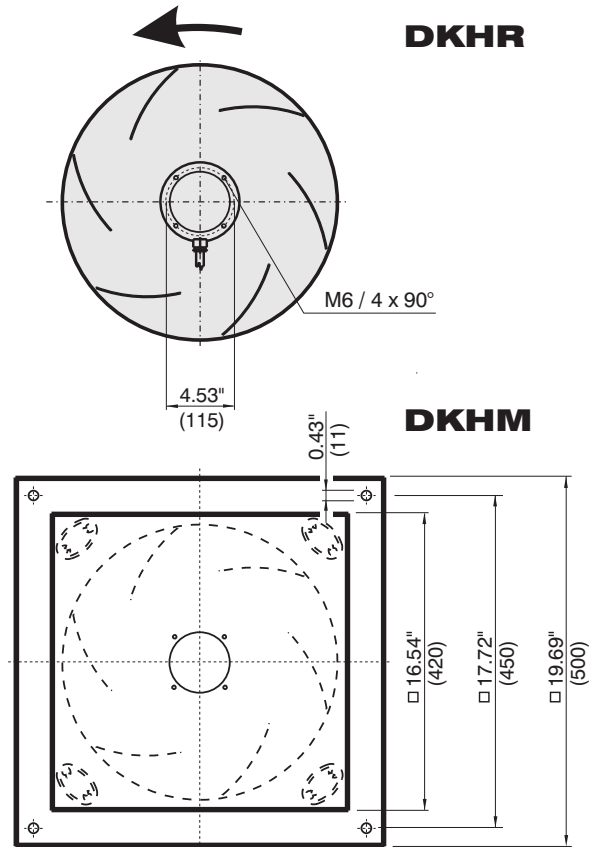
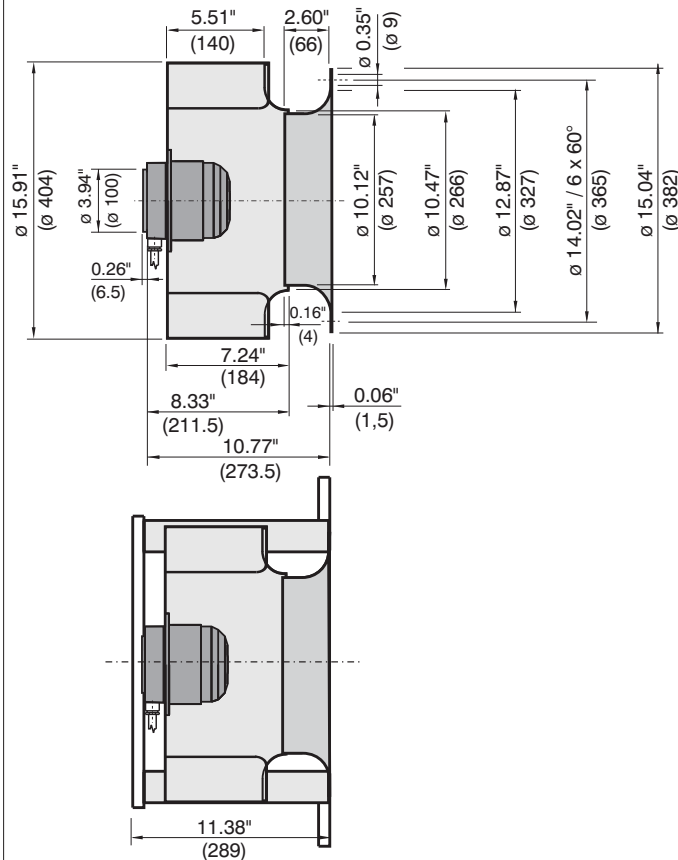


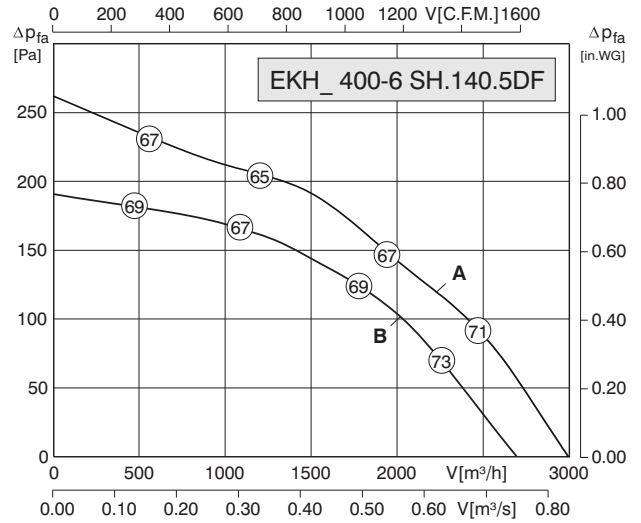
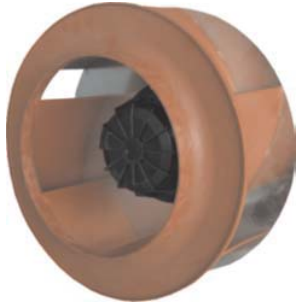
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
1 ~115	60	A	0.79	6.60	1570	122	50	50	7	2.2	54	01.024	12 / 21
1 ~230	60	A	0.79	3.30	1570	122	50	14	7	2.2	54	01.024	12 / 21
1 ~230	50	B	0.54	2.80	1356	140	60	14	20	2.9	54	01.024	12 / 21



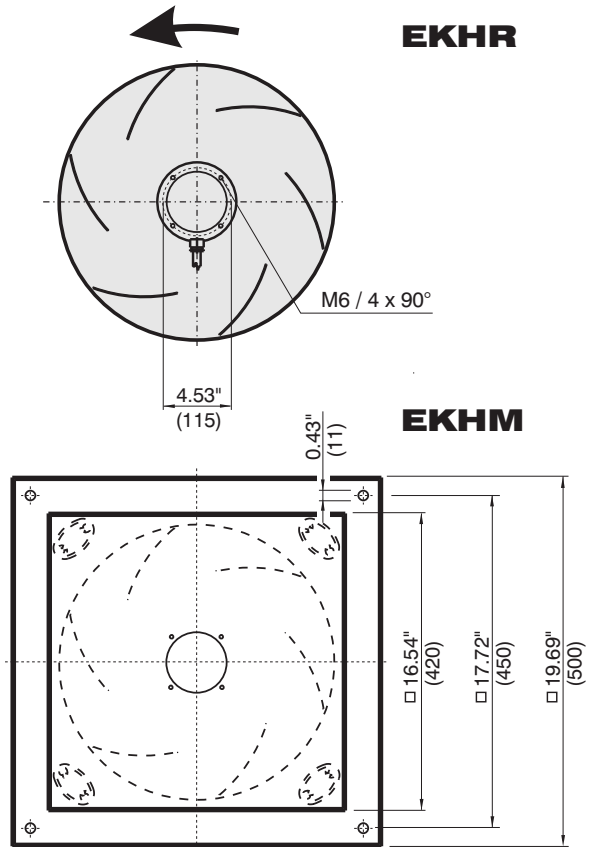
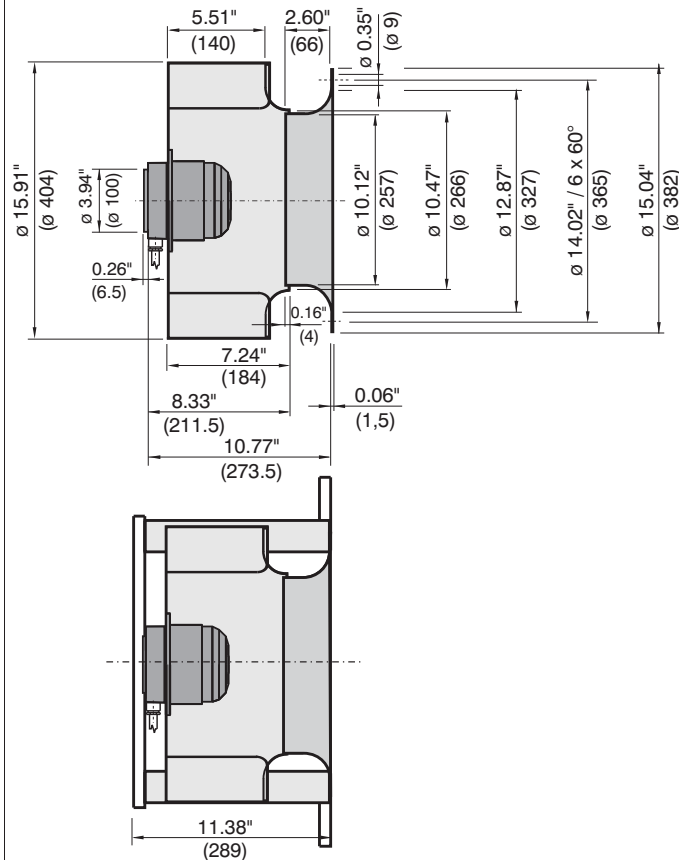


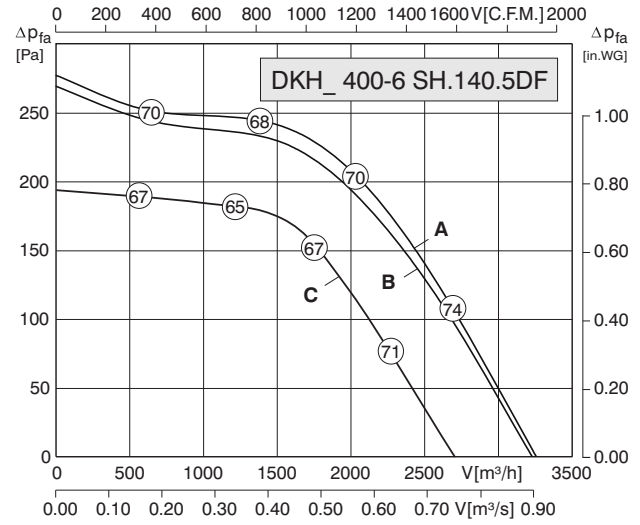
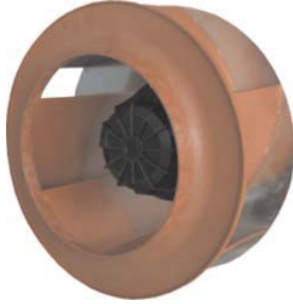
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	★	Ⓜ [kg]
3 ~460 Y	60	A	0.725	1.27	1565	140	60	-	-	2.9	54	01.005	10 / 19
3 ~230 Δ	60	B	0.665	2.16	1495	149	65	-	-	2.9	54	01.006	10 / 19
3 ~400 Y	50	C	0.470	1.10	1355	158	70	-	-	3.2	54	01.005	10 / 19



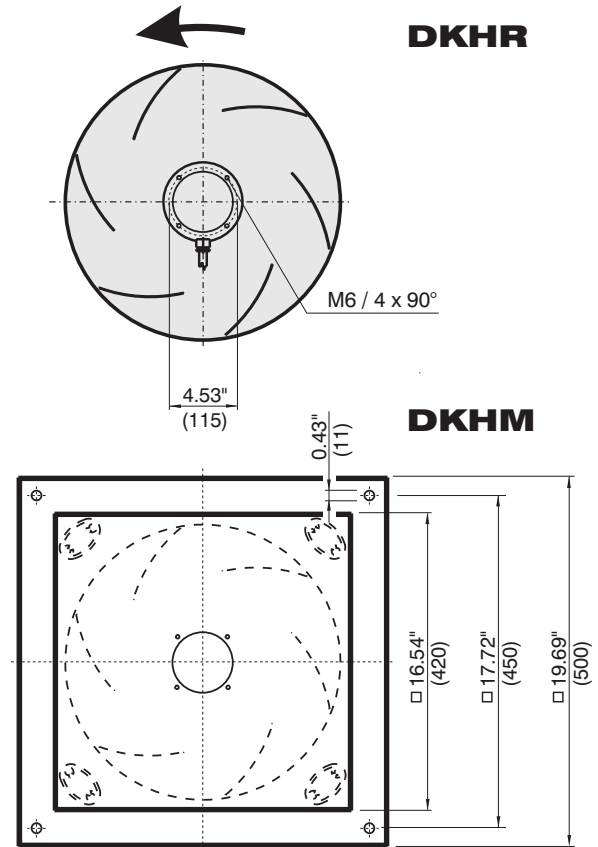
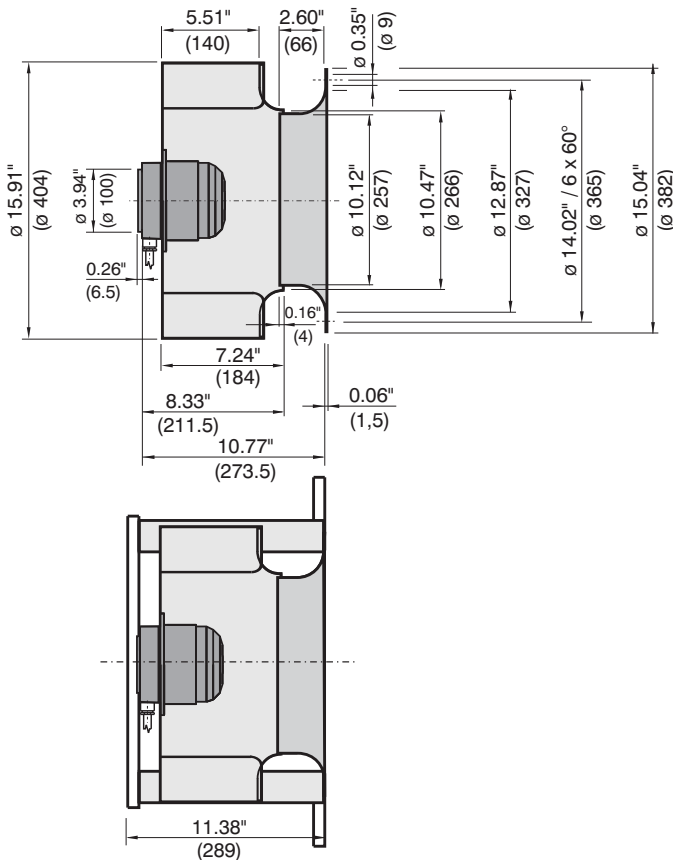


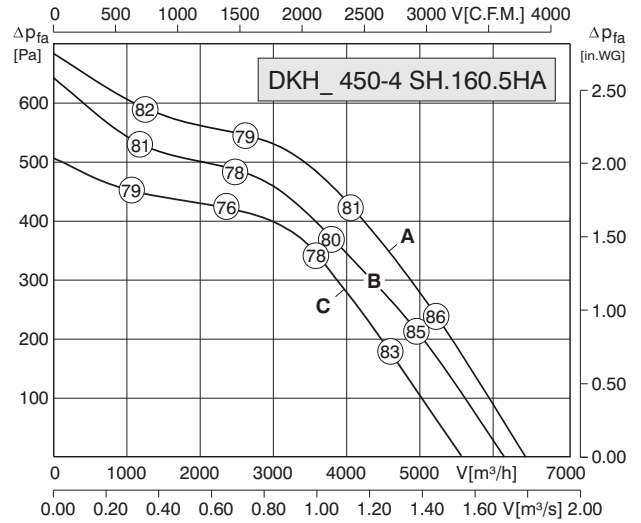
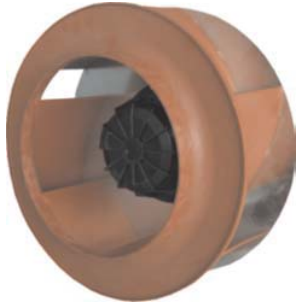
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
1 ~115	60	A	0.24	2.20	975	158	70	16	-	1.5	54	01.024	8 / 17
1 ~230	60	A	0.24	1.10	975	158	70	4	-	1.5	54	01.024	8 / 17
1 ~230	50	B	0.18	0.90	890	158	70	4	9	2.5	54	01.024	8 / 17



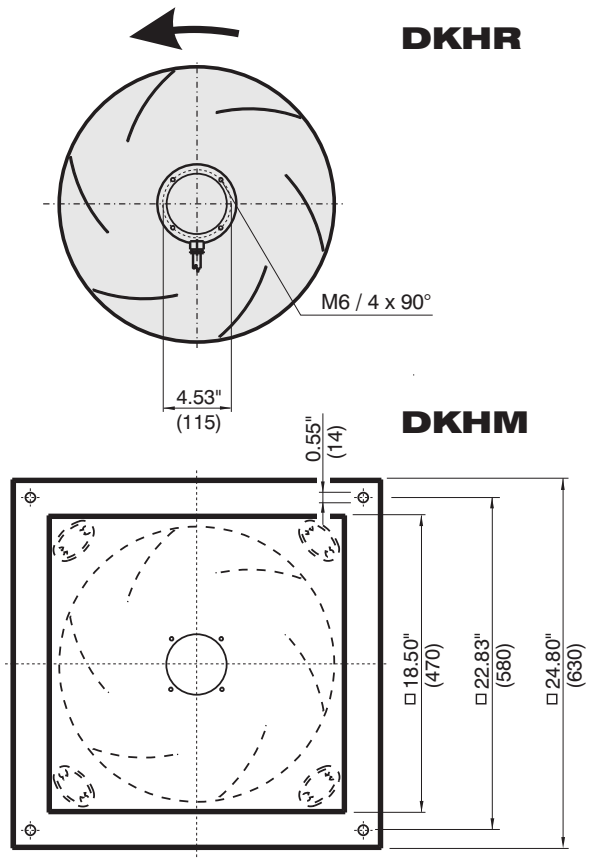
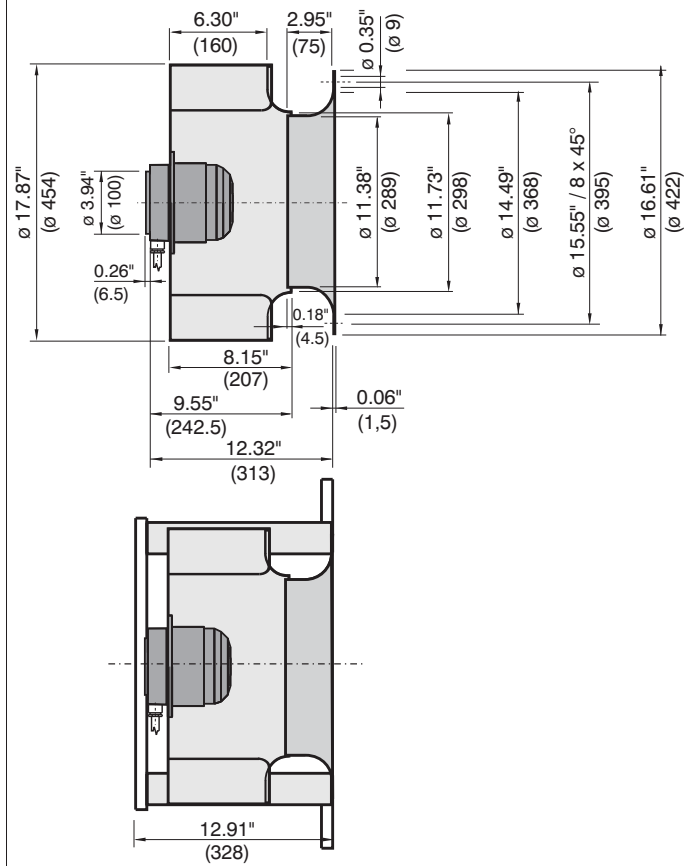


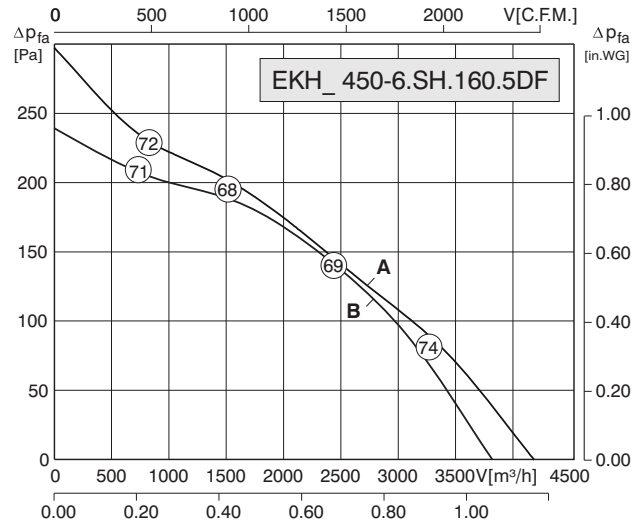
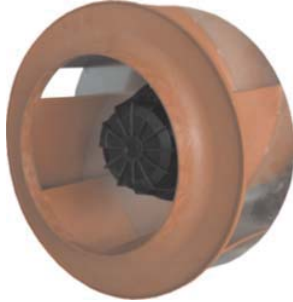
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
3 ~460 Y	60	A	0.28	0.56	1100	158	70	-	-	3.7	54	01.005	8 / 17
3 ~230 Δ	60	B	0.24	0.90	1075	158	70	-	-	3.7	54	01.006	8 / 17
3 ~400 Y	50	C	0.20	0.56	935	158	70	-	-	3.2	54	01.005	8 / 17



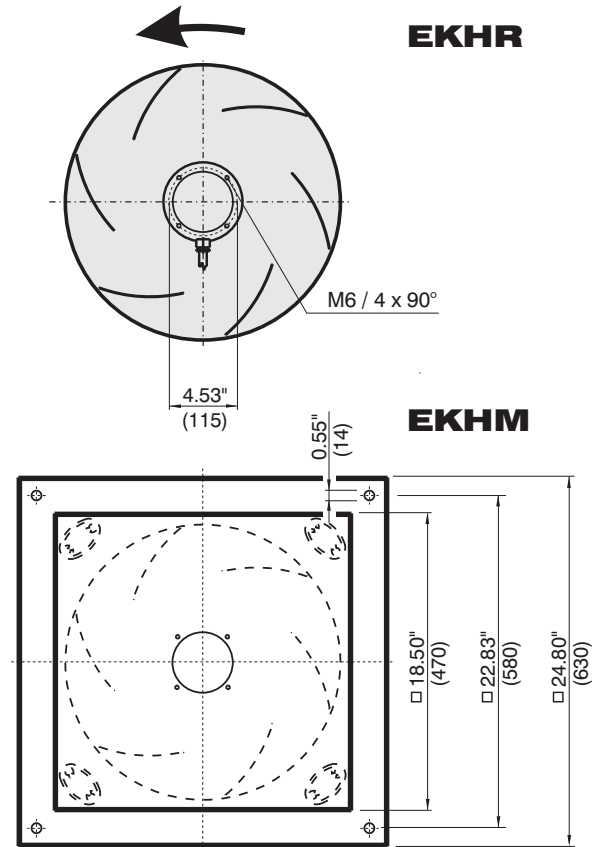
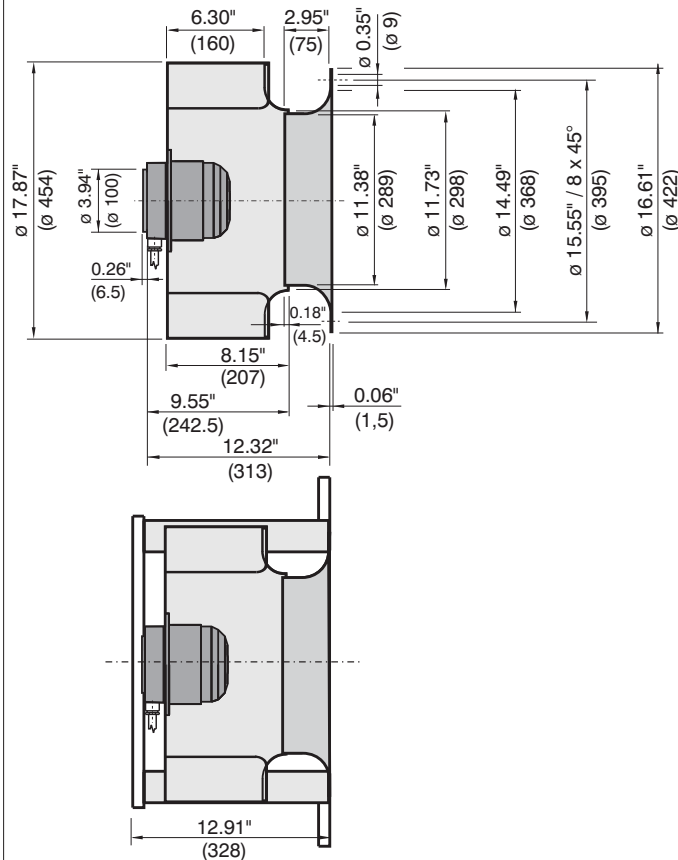


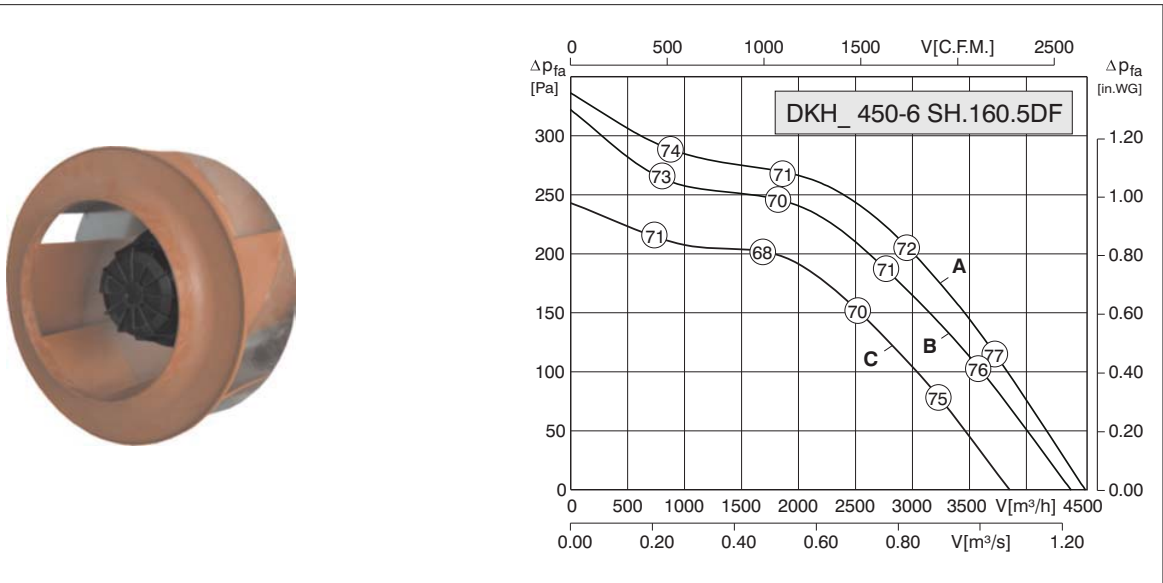
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
3 ~460 Y	60	A	1.09	1.80	1440	113	45	-	-	2.7	54	01.005	13 / 28
3 ~230 Δ	60	B	0.96	3.00	1360	113	45	-	-	2.7	54	01.006	13 / 28
3 ~400 Y	50	C	0.71	1.50	1270	140	60	-	-	3.0	54	01.005	13 / 28





U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
1 ~115	60	A	0.35	3.00	855	158	70	20	-	1.5	54	01.024	9 / 24
1 ~230	60	A	0.35	1.50	855	158	70	5	-	1.5	54	01.024	9 / 24
1 ~230	50	B	0.26	1.16	850	158	70	5	10	1.9	54	01.024	9 / 24





U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
3 ~460 Y	60	A	0.41	0.68	1030	140	60	-	-	2.6	54	01.005	9 / 24
3 ~230 Δ	60	B	0.37	1.16	980	140	60	-	-	2.6	54	01.006	9 / 24
3 ~400 Y	50	C	0.42	0.60	890	158	70	-	-	3.0	54	01.005	9 / 24

