

AC centrifugal fans - RadiCal®

Series R2E190 RA Ø190 mm



Highlights:

- Backward curved
- 7-blade impeller, single phase motor
- Thermal overload protector (TOP) wired internally
- Mounting position: Any
- Condensate discharge holes: None
- Ingress protection of IP44; dependent on installation and position

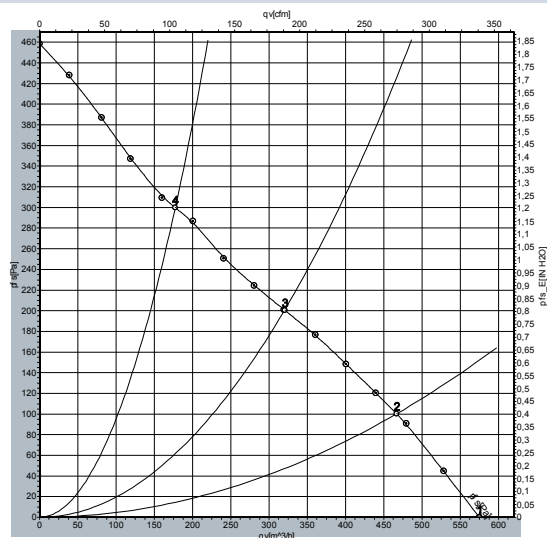
Material: Fiberglass reinforced composite
Impeller: PA

Direction of rotation: Clockwise, seen on rotor

| Nominal Data | Air flow | | Nominal voltage | Hertz | Ball bearings | Power input | Speed (1) | Temperature range (1) | Mass | Ingress Protection Rating | Capacitor | UL |
|----------------|----------|-----|-----------------|-------|---------------|-------------|-----------|-----------------------|------|---------------------------|-----------|----|
| | Type | CFM | | | | | | | | | | |
| R2E190-RA50-21 | 341.4 | 115 | 50/60 | Yes | 70 | 2,450 | -25...75 | 1,200 | IP44 | 6 | Yes | |
| R2E190-RA26-20 | 347.3 | 230 | 50/60 | Yes | 70 | 2,500 | -25...75 | 1,200 | IP44 | 1.5 | Yes | |

(1) Nominal data at operating point with maximum load.

R2E190-RA50-21 Curves



Measurement: LU-128367

Air performance measured as per: ISO 5801, Installation category A, without protection against accidental contact.

Suction-side noise levels: LwA as per ISO 13347, LPA measured at 1m distance to fan axis.

The values given are valid under the measuring conditions mentioned and may vary according to the actual installation situation.

With any deviation to the standard set-up, the specific values have to be checked and reviewed once installed or fitted.

For detailed information on the measuring set-up, please contact ebm-papst.

| | n rpm | Pe W | I A (115V) | LwA dB(A) |
|-----|----------|---------|------------------|--------------|
| Ⓐ 1 | 2750 | 60 | 0.53 | 68 |
| Ⓐ 2 | 2575 | 63 | 0.55 | 64 |
| Ⓐ 3 | 2450 | 66 | 0.59 | 60 |
| Ⓐ 4 | 2630 | 62 | 0.54 | 65 |

AC centrifugal fans - RadiCal®

Series R2E220 RA Ø220 mm



Highlights:

- Backward curved
- 7-blade impeller, single phase motor
- Thermal overload protector (TOP) wired internally
- Mounting position: Any
- Condensate discharge holes: None
- Ingress protection of IP44; dependent on installation and position

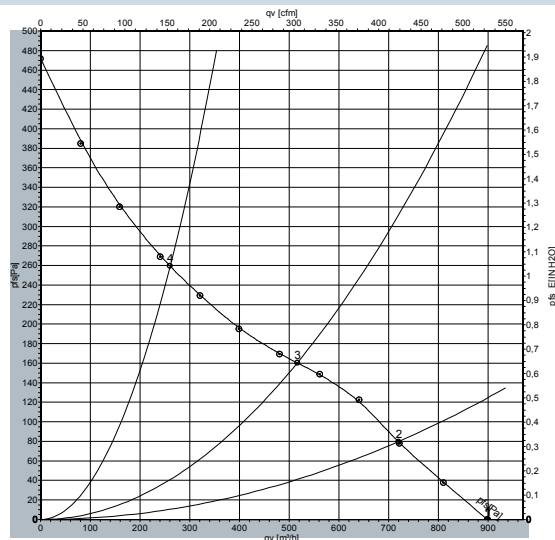
Material: Fiberglass reinforced composite
Impeller: PA

Direction of rotation: Clockwise, seen on rotor

| Nominal Data | Air flow | Nominal voltage | Hertz | Ball bearings | Power input | Speed (1) | Temperature range (1) | Mass | Ingress Protection Rating | Capacitor | UL |
|----------------|----------|-----------------|-------|---------------|-------------|-----------|-----------------------|-------|---------------------------|-----------|-----|
| | CFM | VAC | | | Watts | RPM | °C | g | | µF | |
| R2E220-RA44-14 | 529.7 | 115 | 50/60 | Yes | 108 | 2,100 | -25...60 | 1,300 | IP44 | 8 | Yes |
| R2E220-RA38-13 | 541.5 | 230 | 50/60 | Yes | 107 | 2,050 | -25...60 | 1,300 | IP44 | 2 | Yes |

(1) Nominal data at operating point with maximum load.

R2E220-RA44-14 Curves



Measurement: LU-130009

Air performance measured as per: ISO 5801, Installation category A, without protection against accidental contact.

Suction-side noise levels: LwA as per ISO 13347, LpA measured at 1m distance to fan axis.

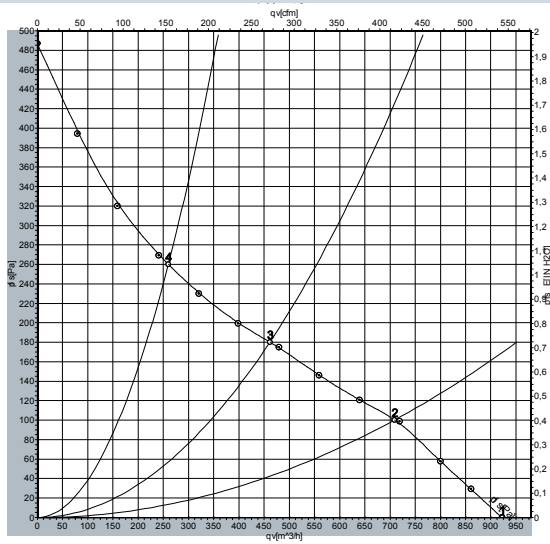
The values given are valid under the measuring conditions mentioned and may vary according to the actual installation situation.

With any deviation to the standard set-up, the specific values have to be checked and reviewed once installed or fitted.

For detailed information on the measuring set-up, please contact ebm-papst.

| | n rpm | Pe W | I A (115V) | LwA dB(A) |
|-------|----------|---------|------------------|--------------|
| (A) 1 | 2455 | 92 | 0.81 | 69 |
| (A) 2 | 2260 | 98 | 0.85 | 62 |
| (A) 3 | 2100 | 100 | 0.88 | 60 |
| (A) 4 | 2265 | 96 | 0.84 | 65 |

R2E220-RA38-13 Curves



Measurement: LU-136805

Air performance measured as per: ISO 5801, Installation category A, without protection against accidental contact.

Suction-side noise levels: L_{WA} as per ISO 13347, L_{PA} measured at 1m distance to fan axis.

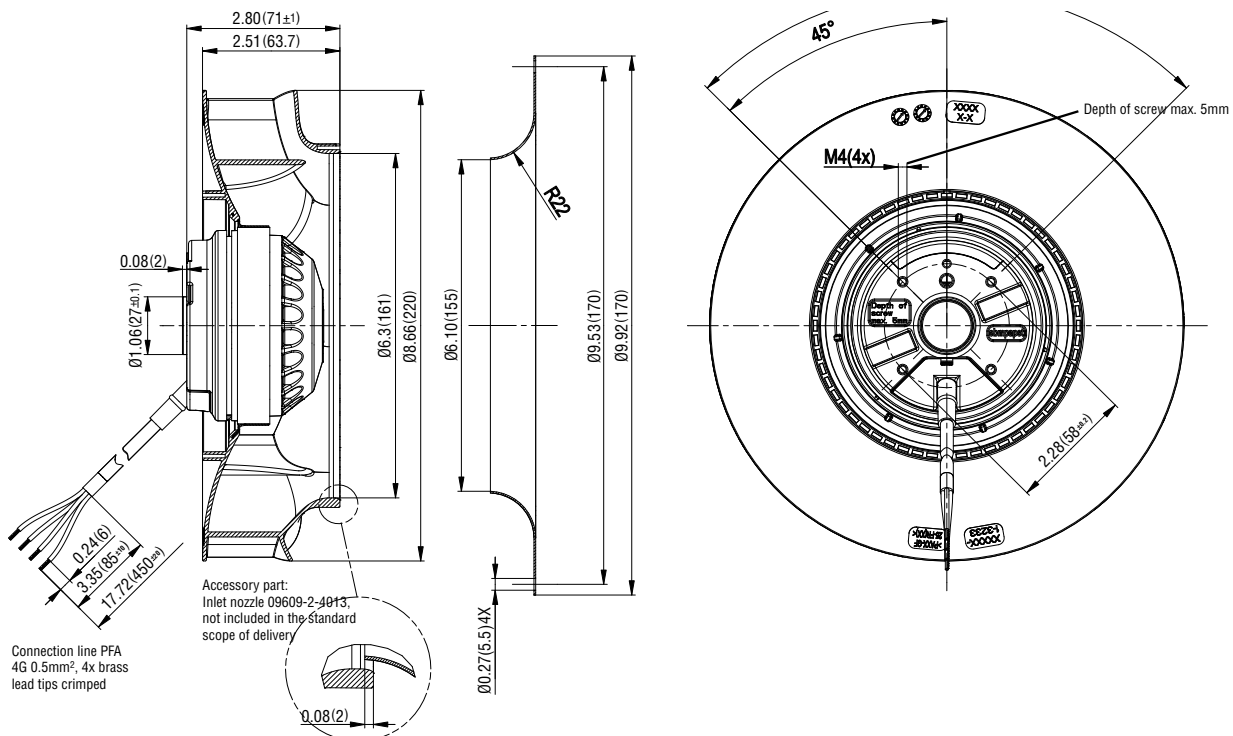
The values given are valid under the measuring conditions mentioned and may vary according to the actual installation situation.

With any deviation to the standard set-up, the specific values have to be checked and reviewed once installed or fitted.

For detailed information on the measuring set-up, please contact ebm-papst.

| | n | P _e | I | L _{WA} |
|-----|------|----------------|----------|-----------------|
| | rpm | W | A (230V) | dB(A) |
| ⓑ 1 | 2450 | 102 | 0.46 | 69 |
| ⓑ 2 | 2220 | 106 | 0.46 | 62 |
| ⓑ 3 | 2050 | 107 | 0.47 | 60 |
| ⓑ 4 | 2215 | 105 | 0.46 | 65 |

R2E220-RAXX-XX



AC centrifugal fans - RadiCal®

Series R2E225 RA Ø225 mm



Highlights:

- Backward curved
- 7-blade impeller, single phase motor
- Thermal overload protector (TOP) wired internally
- Mounting position: Any
- Condensate discharge holes: None
- Ingress protection of IP44; dependent on installation and position

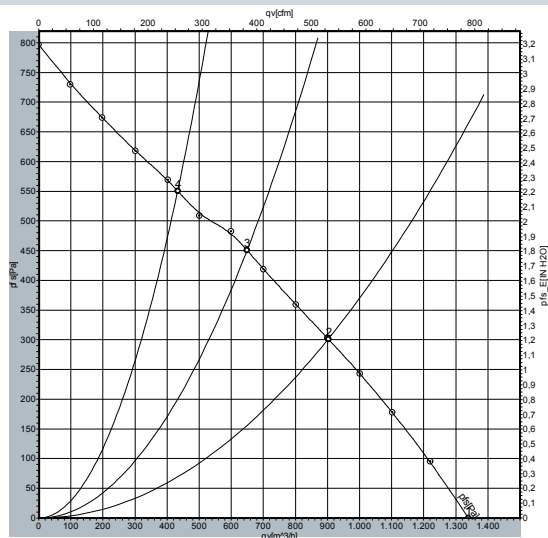
Material: Fiberglass reinforced composite
Impeller: PA

Direction of rotation: Clockwise, seen on rotor

| Nominal Data | Air flow | Nominal voltage | Hertz | Ball bearings | Power input | Speed (1) | Temperature range (1) | Mass | Ingress Protection Rating | Capacitor | UL |
|----------------|----------|-----------------|-------|---------------|-------------|-----------|-----------------------|-------|---------------------------|-----------|-----|
| | CFM | VAC | | | Watts | RPM | °C | g | | µF | |
| R2E225-RA40-21 | 788.7 | 115 | 50/60 | Yes | 225 | 2,700 | -25...40 | 2,300 | IP44 | 14 | Yes |
| R2E225-RA92-20 | 765.2 | 230 | 50/60 | Yes | 225 | 2,600 | -25...45 | 2,300 | IP44 | 3.5 | Yes |

(1) Nominal data at operating point with maximum load.

R2E225-RA40-21 Curves



Measurement: LU-128357

Air performance measured as per: ISO 5801, Installation category A, without protection against accidental contact.

Suction-side noise levels: LWA as per ISO 13347, LPA measured at 1m distance to fan axis.

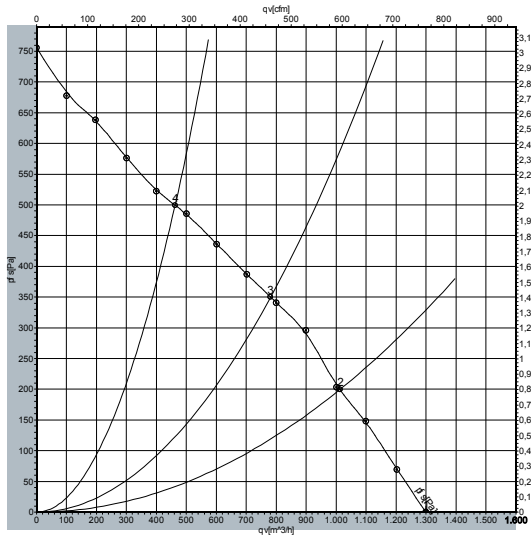
The values given are valid under the measuring conditions mentioned and may vary according to the actual installation situation.

With any deviation to the standard set-up, the specific values have to be checked and reviewed once installed or fitted.

For detailed information on the measuring set-up, please contact ebm-papst.

| | n rpm | Pe W | I A (115V) | LwA dB(A) |
|-------|----------|---------|------------------|--------------|
| (A) 1 | 3025 | 187 | 1.61 | 76 |
| (A) 2 | 2700 | 225 | 1.95 | 70 |
| (A) 3 | 2765 | 218 | 1.89 | 69 |
| (A) 4 | 2890 | 204 | 1.76 | 71 |

R2E225-RA92-20 Curves



Measurement: LU-127148

Air performance measured as per: ISO 5801, Installation category A, without protection against accidental contact.

Suction-side noise levels: L_{WA} as per ISO 13347, L_{PA} measured at 1m distance to fan axis.

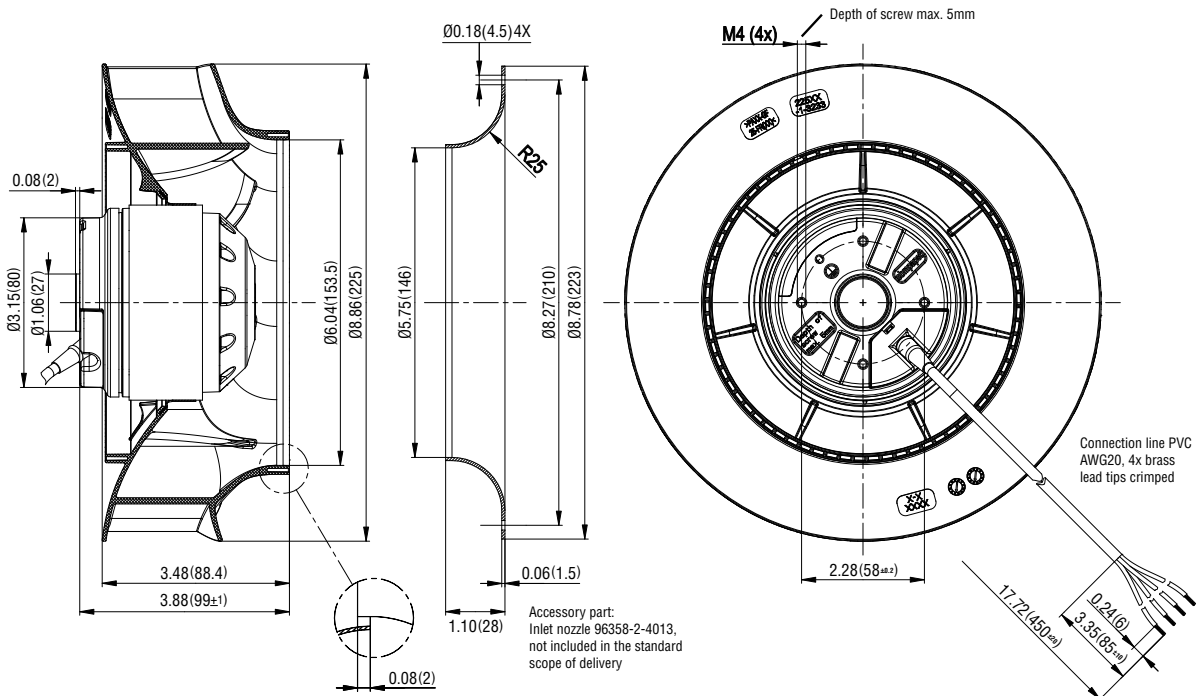
The values given are valid under the measuring conditions mentioned and may vary according to the actual installation situation.

With any deviation to the standard set-up, the specific values have to be checked and reviewed once installed or fitted.

For detailed information on the measuring set-up, please contact ebm-papst.

| | n rpm | Pe W | I A (230V) | L _{WA} dB(A) |
|-----|----------|---------|------------------|--------------------------|
| ⓑ 1 | 2900 | 190 | 0.83 | 76 |
| ⓑ 2 | 2700 | 210 | 0.92 | 72 |
| ⓑ 3 | 2700 | 207 | 0.90 | 68 |
| ⓑ 4 | 2815 | 196 | 0.85 | 73 |

R2E225-RAXX-XX



AC centrifugal fans - RadiCal®

Series R2E250 RB Ø250 mm



Highlights:

- Backward curved
- 7-blade impeller, single phase motor
- Thermal overload protector (TOP) wired internally
- Mounting position: Shaft horizontal or rotor on bottom; rotor on top on request
- Condensate discharge holes: Rotor-side
- Ingress protection of IP44; dependent on installation and position

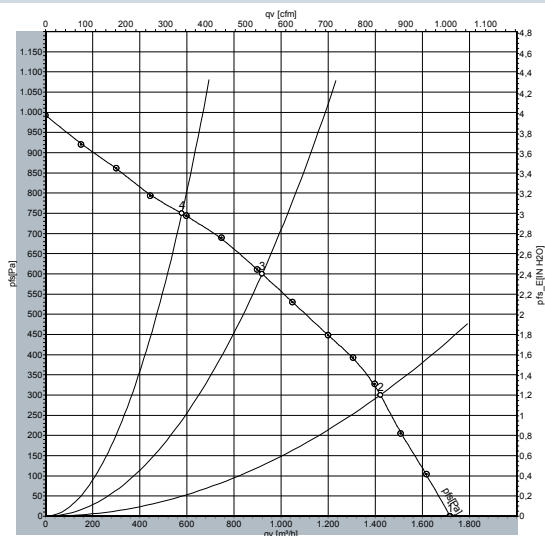
Material: Fiberglass reinforced composite
Impeller: PA

Direction of rotation: Clockwise, seen on rotor

| Nominal Data | Air flow | | Nominal voltage | Hertz | Ball bearings | Power input | Speed (1) | Temperature range (1) | Mass | Ingress Protection Rating | Capacitor | UL |
|----------------|----------|-----|-----------------|-------|---------------|-------------|-----------|-----------------------|------|---------------------------|-----------|----|
| | Type | CFM | VAC | | | | | | | | | |
| R2E250-RB02-11 | 1010.1 | 115 | 50/60 | Yes | 395 | 3,050 | -25...60 | 3,800 | IP44 | 20 | Yes | |
| R2E250-RB06-12 | 1006.5 | 230 | 50/60 | Yes | 390 | 3,100 | -25...55 | 3,800 | IP44 | 5 | Yes | |

(1) Nominal data at operating point with maximum load.

R2E250-RB02-11 Curves



Measurement: LU-131705

Air performance measured as per: ISO 5801, Installation category A, without protection against accidental contact.

Suction-side noise levels: L_{WA} as per ISO 13347, L_{PA} measured at 1m distance to fan axis.

The values given are valid under the measuring conditions mentioned and may vary according to the actual installation situation.

With any deviation to the standard set-up, the specific values have to be checked and reviewed once installed or fitted.

For detailed information on the measuring set-up, please contact ebm-papst.

| | n rpm | Pe W | I A (115V) | L _{WA} dB(A) |
|-------|----------|---------|------------------|--------------------------|
| (A) 1 | 3220 | 352 | 3.07 | 81 |
| (A) 2 | 3125 | 380 | 3.31 | 76 |
| (A) 3 | 3050 | 395 | 3.45 | 74 |
| (A) 4 | 3170 | 363 | 3.17 | 80 |

