



## VYPR 4

**VYPR 4** is a full-cycle top lighting solution designed for greenhouse and indoor growing environments. This new generation of the VYPR platform includes a compact form factor, increased output and even more versatility with a new wide beam optic for better uniformity at a variety of mounting heights.

## SPECIFICATIONS

|                                                  |                                                              |
|--------------------------------------------------|--------------------------------------------------------------|
| Light Source                                     | LED                                                          |
| Spectrum                                         | PhysioSpec™ Broad R4, R8                                     |
| Output                                           | 1120 - 2760 $\mu\text{mol/s}$                                |
| Efficacy                                         | 2.7 - 3.3 $\mu\text{mol/J}$                                  |
| Efficacy @50% Dimmed                             | 2.9 - 3.6 $\mu\text{mol/J}$                                  |
| AC Input Power                                   | 415W-834W @ 400V AC                                          |
| AC Input Voltage                                 | 200V-480V AC, 50/60 Hz                                       |
| Light Distribution                               | Lambertian, Wide Beam Optic (BP8)                            |
| Thermal Management                               | Passive                                                      |
| Max. Ambient Temperature                         | 104°F [40°C]                                                 |
| Dimming                                          | Source Signal Driver, 0-10V, Dim-to-off<br>Dimming: 10%-100% |
| Dimming Connector and Transmission Hardware/Type | Flying Leads/M12 3-pin Male (1-Channel)                      |
| Power Factor                                     | > 0.97 @100%                                                 |
| Total Harmonic Distortion                        | < 20%                                                        |
| Lifetime Q90                                     | >50,000hrs                                                   |
| IP Rating                                        | IP66; RH <90% non-condensing                                 |
| Certifications                                   | cETLus, CE, UKCA, Wet Location                               |
| Industry Standards                               | UL1598, UL8750, UL8800, IEC 60598-1                          |
| Warranty                                         | 5 Year Limited                                               |
| Photobiological Safety IEC 62471                 | Risk Group 1                                                 |
| DLC Reported Controlled Environment              | Indoor (Non-Stacked) or Greenhouse                           |
| DLC Reported Lighting Scheme                     | Top Light / Sole-Source or Supplemental                      |

## PHOTON FLUX AND EFFICACY @400V AC

| Fixture | PhysioSpec™ Spectrum / Configuration | W AC  | Output PPF ( $\mu\text{mol/s}$ ) (400-700nm) | Output PF ( $\mu\text{mol/s}$ ) (400-800nm) | Efficacy (PE) ( $\mu\text{mol/J}$ ) | Efficacy (PE) @50% Dim ( $\mu\text{mol/J}$ ) |
|---------|--------------------------------------|-------|----------------------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|
| 4x      | BROAD R4 (BW4) CG                    | 422 W | 1120                                         | 1150                                        | 2.7                                 | 2.9                                          |
|         | BROAD R8 (BP8) CG                    | 415 W | 1370                                         | 1380                                        | 3.3                                 | 3.6                                          |
|         | BROAD R8 (BP8) WB                    | 415 W | 1320                                         | 1330                                        | 3.2                                 | 3.5                                          |
| 4p      | BROAD R4 (BW4) CG                    | 634 W | 1690                                         | 1730                                        | 2.7                                 | 2.9                                          |
|         | BROAD R8 (BP8) CG                    | 624 W | 2040                                         | 2060                                        | 3.3                                 | 3.6                                          |
|         | BROAD R8 (BP8) WB                    | 624 W | 1980                                         | 2010                                        | 3.2                                 | 3.5                                          |
| 4i      | BROAD R4 (BW4) CG                    | 825 W | 2290                                         | 2340                                        | 2.8                                 | 2.9                                          |
|         | BROAD R8 (BP8) CG                    | 834 W | 2730                                         | 2760                                        | 3.3                                 | 3.6                                          |
|         | BROAD R8 (BP8) WB                    | 834 W | 2660                                         | 2690                                        | 3.2                                 | 3.5                                          |

Light Distribution: CG = Clear Glass Lens (Lambertian). WB = Wide Beam Optic.

## ORDERING GUIDE

| Family | Fixture  | PhysioSpec™ Spectrum  | Distribution           | Input Voltage*            | Pack Type   |
|--------|----------|-----------------------|------------------------|---------------------------|-------------|
| VR     | 4i       | BW4                   | CG                     | LVG                       | B           |
|        | 4p       | BP8                   | WB                     | JVG                       | S           |
|        | 4x2      |                       |                        |                           |             |
|        | 800 W    | BROAD R4              | LAMBERTIAN             | 120-277 V AC <sup>3</sup> | BULK PACK   |
|        | 600 W    | BROAD R8 <sup>1</sup> | WIDE BEAM <sup>2</sup> | 200-480 V AC              | SINGLE PACK |
|        | 2x 400 W |                       |                        |                           |             |

1. Extended lead time applies. Consult Fluence operations for details.

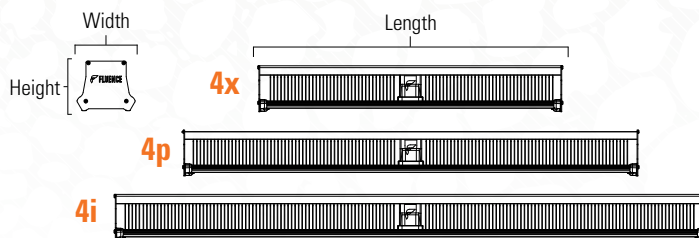
2. Available with Broad R8 (BP8) only

3. Available with VR-4p only.

Lifetime and maintenance values are given at an ambient temperature of 25 °C [77 °F]. All measured lifetimes are industry standard measurements indicating average length of operation and not a performance claim specific to any individual product

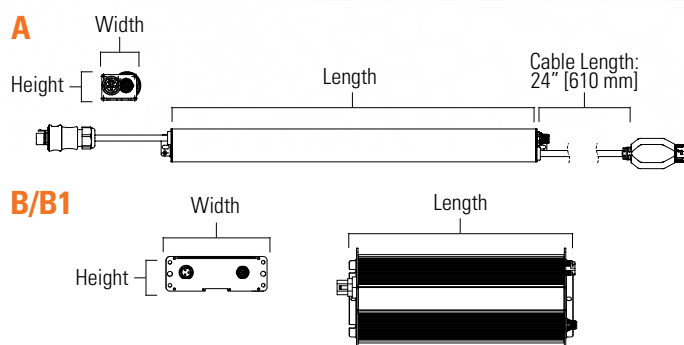
## DIMENSIONS | WEIGHT

| VYPR 4            | Length       | Width      | Height    | Weight          |
|-------------------|--------------|------------|-----------|-----------------|
| 4x Light Bar 400w | 23.8" 605mm  | 4.2" 107mm | 3.6" 91mm | 5.8 lbs 2.6 kg  |
| 4p Light Bar 600w | 35.5" 900mm  | 4.2" 107mm | 3.6" 91mm | 8.4 lbs 3.8 kg  |
| 4i Light Bar 800w | 46.1" 1170mm | 4.2" 107mm | 3.6" 91mm | 11.7 lbs 5.3 kg |

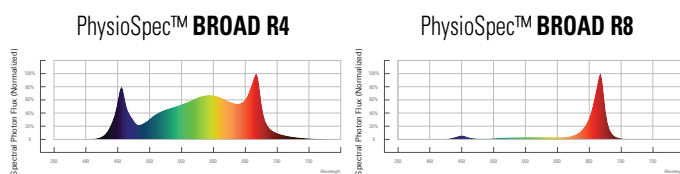


## POWER SUPPLY

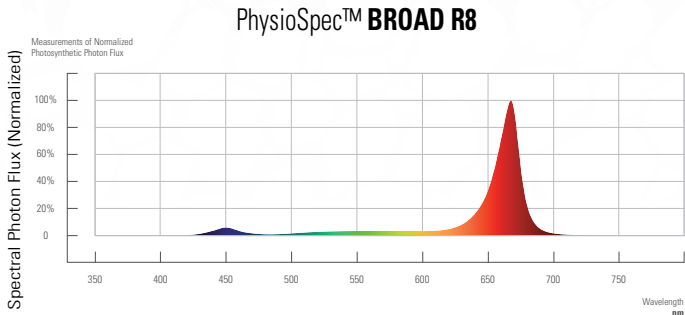
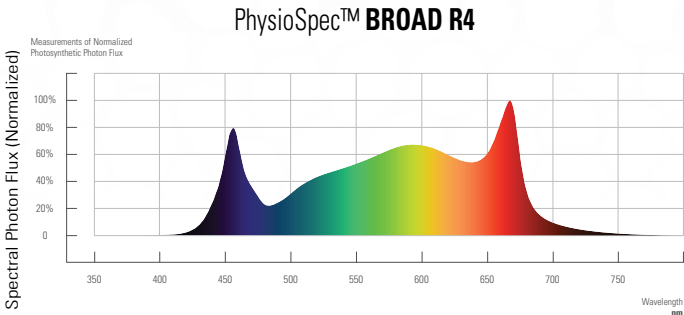
|                             | Length       | Width       | Height     | Weight         |
|-----------------------------|--------------|-------------|------------|----------------|
| A PSU 120-277V AC 600W LVG  | 20" 510 mm   | 1.7" 44 mm  | 1.3" 32 mm | 3.9 lbs 1.8 kg |
| B1 PSU 200-480V AC 600W JVG | 10.4" 265 mm | 5.6" 143 mm | 1.9" 49 mm | 6.2 lbs 2.8 kg |
| B PSU 200-480V AC 800W JVG  | 12.5" 317 mm | 5.6" 143 mm | 1.9" 49 mm | 7.4 lbs 3.4 kg |



## SPECTRA



SPECTRA



LIGHT BARS (COUPLED WITH PSU) - AMERICAS

| VYPR 4 Model | Voltage                | PhysioSpec™ Spectrum | Lens Type       | Regional Commercial Code | Ordering PN 12NC Single Pack (-S) | Ordering PN 12NC Bulk Pack (-B) | Bulk Pack Pallet Quantity |
|--------------|------------------------|----------------------|-----------------|--------------------------|-----------------------------------|---------------------------------|---------------------------|
| 4x2          | 200-480 V              | Broad R4             | Clear Glass     | VR4X2-BW4-CG-JVG         | 9124 017 01932                    | 9124 017 01933                  | 28                        |
|              |                        | Broad R8             | Clear Glass     | VR4X2-BP8-CG-JVG         | 9124 017 01934                    | 9124 017 01935                  |                           |
|              |                        |                      | Wide Beam Optic | VR4X2-BP8-WB-JVG         | 9124 017 01936                    | 9124 017 01937                  |                           |
| 4p           | 120-277 V <sup>1</sup> | Broad R4             | Clear Glass     | VR-4P-BW4-CG-LVG         | 9124 017 02164                    | 9124 017 02165                  | 40                        |
|              |                        | Broad R8             | Clear Glass     | VR-4P-BP8-CG-LVG         | 9124 017 02166                    | 9124 017 02167                  |                           |
|              |                        |                      | Wide Beam Optic | VR-4P-BP8-WB-LVG         | 9124 017 02168                    | 9124 017 02169                  |                           |
|              | 200-480 V              | Broad R4             | Clear Glass     | VR-4P-BW4-CG-JVG         | 9124 017 01952                    | 9124 017 01953                  |                           |
|              |                        | Broad R8             | Clear Glass     | VR-4P-BP8-CG-JVG         | 9124 017 01954                    | 9124 017 01955                  |                           |
|              |                        |                      | Wide Beam Optic | VR-4P-BP8-CG-JVG         | 9124 017 01956                    | 9124 017 01957                  |                           |
| 4i           | 200-480 V              | Broad R4             | Clear Glass     | VR-4i-BW4-CG-JVG         | 9124 017 01962                    | 9124 017 01963                  | 32                        |
|              |                        | Broad R8             | Clear Glass     | VR-4i-BP8-CG-JVG         | 9124 017 01964                    | 9124 017 01965                  |                           |
|              |                        |                      | Wide Beam Optic | VR-4i-BP8-WB-JVG         | 9124 017 01966                    | 9124 017 01967                  |                           |

LIGHT BARS - EMEA/ROW

| VYPR 4 Model    | PhysioSpec™ Spectrum | Lens Type       | Regional Commercial Code | Ordering PN 12NC Single Pack (-S) | Ordering PN 12NC Bulk Pack (-B) | Bulk Pack Pallet Quantity |
|-----------------|----------------------|-----------------|--------------------------|-----------------------------------|---------------------------------|---------------------------|
| 4x <sup>1</sup> | Broad R4             | Clear Glass     | VR-4x-BW4-CG             | 9124 017 01797                    | 9124 017 01798                  | 56                        |
|                 | Broad R8             | Clear Glass     | VR-4x-BP8-CG             | 9124 017 01799                    | 9124 017 01801                  |                           |
|                 |                      | Wide Beam Optic | VR-4x-BP8-WB             | 9124 017 01802                    | 9124 017 01803                  |                           |
| 4p              | Broad R4             | Clear Glass     | VR-4p-BW4-CG             | 9124 017 01808                    | 9124 017 01809                  | 40                        |
|                 | Broad R8             | Clear Glass     | VR-4p-BP8-CG             | 9124 017 01810                    | 9124 017 01811                  |                           |
|                 |                      | Wide Beam Optic | VR-4p-BP8-WB             | 9124 017 01812                    | 9124 017 01813                  |                           |
| 4i              | Broad R4             | Clear Glass     | VR-4i-BW4-CG             | 9124 017 01818                    | 9124 017 01819                  | 32                        |
|                 | Broad R8             | Clear Glass     | VR-4i-BP8-CG             | 9124 017 01820                    | 9124 017 01821                  |                           |
|                 |                      | Wide Beam Optic | VR-4i-BP8-WB             | 9124 017 01822                    | 9124 017 01823                  |                           |

1. 4x2 Duo Mount (2 Lightbars: 1 PSU) require (2) 4x light bars and (1) 800 W PSU B (RCC: PJWG-V4B-800-028) per system and related PSU accessories

POWER SUPPLIES - EMEA/ROW

| PSU                      | AC Connector Type | DC Current | Compatible Light Bars | Regional Commercial Code      | Ordering PN 12NC Single Pack (-S) | Ordering PN 12NC Bulk Pack (-B) | Bulk Pack Pallet Quantity |
|--------------------------|-------------------|------------|-----------------------|-------------------------------|-----------------------------------|---------------------------------|---------------------------|
| PSU 120-277V AC 600W LVG | Wieland RST       | 2.13 A     | VYPR 4p               | PLWG-V4B-600-021 <sup>1</sup> | 9124 017 02078                    | 9124 017 02073                  | 168<br>(Multiples of 8)   |
| PSU 200-480V AC 600W JVG | Wieland RST       | 2.13 A     | VYPR 4p               | PJWG-V4B-680-021              | 9124 017 02080                    | 9124 017 02075                  | 168<br>(Multiples of 4)   |
| PSU 200-480V AC 800W JVG | Wieland RST       | 2.83 A     | VYPR 4i<br>VYPR 4x2   | PJWG-V4B-800-028              | 9124 017 01929                    | 9124 017 01928                  | 168<br>(Multiples of 4)   |

1. Extended leadtime applies. Consult Fluence customer service for details.

Contact **FLUENCE**   
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## DC CABLE (Power Supply To Fixture: Not required with LVG Power Supply)

| Description                                                | Regional Commercial Code | Ordering PN 12NC Single Pack (S) | Ordering PN 12NC Bulk Pack (B) | Bulk Pack Carton Quantity |
|------------------------------------------------------------|--------------------------|----------------------------------|--------------------------------|---------------------------|
| 18in (0.46m) 90° Right Angle DC Cable, M19, Single Channel | CDG-VRU3P9MR9F0.5        | 9124 017 02086                   | 9124 017 02081                 | 20                        |
| 3ft (0.91m) DC Cable, M19, Single Channel                  | CDG-VRU3P9MP9F0.9        | 9124 017 02087                   | 9124 017 02082                 | 20                        |
| 6ft (1.8m) DC CBL, M19, Single Channel                     | CDG-VRU3P9MP9F1.8        | 9124 017 02088                   | 9124 017 02083                 | 20                        |
| T-Splitter DC Cable M19, Single Channel, Duo Mount/4x2     | CDG-VRU3D9MP9F0.1        | 9124 017 02090                   | 9124 017 02085                 | 20                        |

## MOUNTING HARWARE

| Description                                                        | Pcs per Kit | Regional Commercial Code | Ordering PN 12NC Single Pack (-S) | Ordering PN 12NC Bulk Pack (-B) | Bulk Pack Carton Quantity |
|--------------------------------------------------------------------|-------------|--------------------------|-----------------------------------|---------------------------------|---------------------------|
| Strut/C-Channel Wire Hanger Kit (for strut width ≤ 1-5/8" / 45 mm) | 2           | MT-VR-US-XX              | 9124 016 56297                    | 9124 016 55884                  | 20 Kits                   |
| Pipe Wire Hanger Kit (for pipe diameter ≤ 1-3/4" / 50 mm)          | 2           | MT-VR-PI-XX              | 9124 016 56295                    | 9124 016 55877                  | 20 Kits                   |
| Square Wire Hanger Kit (for truss width ≤ 2-3/4" / 70 mm)          | 2           | MT-VR-SQ-XX              | 9124 016 56296                    | 9124 016 55897                  | 20 Kits                   |
| VYPR Perpendicular Mount Wire Hanger Kit (for strut 25x50 mm)      | 2           | MT-VR-PP-XX <sup>1</sup> | 9124 016 56288                    | 9124 016 56020                  | 20 Kits                   |
| VYPR Parallel Mount Bracket Kit (for strut 25x50 mm)               | 2           | MT-V3-PL-XX <sup>1</sup> | 9124 016 56287                    | 9124 016 56019                  | 20 Kits                   |
| PSU Universal Strut Mount Hanger Kit MGS (PSUs A, B, B1)           | 2           | MT-V4-UL-MGS             | 9124 017 02093                    | 9124 017 02091                  | 20 Kits                   |
| Combo Hanger Kit, 600/800W, JVG only                               | 2           | MT-V4-CB-JV              | 9124 017 02587                    | 9124 017 02588                  | 20 Kits                   |
| Power Supply Surface Mount Kit, 600/800W, JVG only                 | 2           | MS-PS-MB-JV <sup>1</sup> | 9124 017 02585                    | 9124 017 02586                  | 10 Kits                   |

1. Extended leadtime applies. Consult Fluence customer service for details.

## AC POWER CABLE (Power Supply to AC Line)

| AMERICAS<br>(AC Line to Luminaire)                                      | Regional Commercial Code       | Ordering PN 12NC Single Pack (S) | Ordering PN 12NC Bulk Pack (B) | Bulk Pack Carton Quantity |
|-------------------------------------------------------------------------|--------------------------------|----------------------------------|--------------------------------|---------------------------|
| 6ft AC Pigtail with Wieland Connector                                   | CAA-XXU3WGFL3X1.8              | 9124 017 01601                   | 9124 016 56071                 | 10                        |
| 15ft AC Pigtail with Wieland Connector                                  | CAA-XXU3WGFL3X4.6 <sup>1</sup> | 9123 000 02588                   | 9124 016 56072                 | 5                         |
| 6ft AC Cable Wieland Connector with L7-15P plug (max 277 V)             | CAA-XXU3WGFL7P1.8 <sup>1</sup> | 9124 017 01602                   | 9124 016 56069                 | 10                        |
| 15ft AC Cable Wieland Connector with L7-15P plug (max 277 V)            | CAA-XXU3WGFL7P4.6 <sup>1</sup> | 9123 000 02486                   | 9124 016 56070                 | 5                         |
| EMEA (AC Line to Luminaire)                                             |                                |                                  |                                |                           |
| 0.8m AC Cable Dca Pigtail with Wieland Connector                        | RST20I3GDCAPTC80CM             | -                                | 9124 016 55741                 | 10                        |
| REST OF THE WORLD (AC Line to Luminaire)                                |                                |                                  |                                |                           |
| 0.9m (3ft) AC Cable H07RN-F Pigtail with Wieland Connector <sup>2</sup> | CAE-XXH3WGFL3X0.9 <sup>1</sup> | 9124 016 56073                   | 9124 016 56074                 | 10                        |
| 1.8m (6ft) AC Cable H07RN-F Pigtail with Wieland Connector <sup>2</sup> | CAE-XXH3WGFL3X1.8 <sup>1</sup> | 9124 016 56075                   | 9124 016 56076                 | 10                        |

1. Extended leadtime applies. Consult Fluence operations for details.

2. For markets using harmonized cable

## DIMMING SIGNAL CABLE (Power Supply to Dimming Control)

| AMERICAS (Dimming Control to Power Supply)                 | Regional Commercial Code | Ordering PN 12NC Single Pack (S) | Ordering PN 12NC Bulk Pack (B) | Bulk Pack Carton Quantity |
|------------------------------------------------------------|--------------------------|----------------------------------|--------------------------------|---------------------------|
| 11 IN (0.28m) Dimming Signal Cable, Pigtail, M12 Connector | CCA-XXU3T2FL3X0.3        | 9124 017 01621                   | 9124 016 55902                 | 10                        |
| 5 FT (1.52m) Dimming Signal Cable, Pigtail, M12 Connector  | CCA-XXU3T2FL3X1.5        | 9124 017 01622                   | 9124 016 55881                 | 10                        |
| EMEA/REST OF THE WORLD (Dimming Control to Power Supply)   |                          |                                  |                                |                           |
| 0.8m Dimming Signal Cable, Cca, Pigtail, M12 Connector     | CCE-XXC3T2FL3X0.8        | 9124 017 01623                   | 9124 016 55883                 | 10                        |

## CABLE ADAPTERS

| ACCESSORIES                                                                                                   | Regional Commercial Code | Ordering PN 12NC Single Pack (S) | Ordering PN 12NC Bulk Pack (B) | Bulk Pack Carton Quantity |
|---------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|--------------------------------|---------------------------|
| AC Connector Adapter for Power Supply, Male Wieland Black to Female Leaf Green, Wieland Part #: 99.656.0000.7 | AAA-XXU3WGFWBMXXX        | 9123 000 02483                   | 9124 016 56112                 | 20                        |
| AC adapter Cable for Wieland to M19 FLEX (Americas only)                                                      | AAA-XXU3WGFP9M0.1        | 9124 017 01608                   | 9124 016 56068                 | 20                        |

Contact **FLUENCE** 

support@fluence-led.com 

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NOMINAL ELECTRICAL AC INPUT

| FIXTURE |          | PhysioSpec™ Spectrum | AC VOLTAGE | 120 V  | 208 V  | 230 V  | 277 V  | 347 V  | 400 V  | 480 V  |
|---------|----------|----------------------|------------|--------|--------|--------|--------|--------|--------|--------|
| 4x2     | Broad R4 |                      | AC Current | -      | 4.05 A | 3.78 A | 3.03 A | 2.40 A | 2.10 A | 1.75 A |
|         |          |                      | AC Power   | -      | 845 W  | 844 W  | 840 W  | 834 W  | 841 W  | 841 W  |
|         | Broad R8 |                      | AC Current | -      | 3.99 A | 3.72 A | 2.99 A | 2.38 A | 2.07 A | 1.73 A |
|         |          |                      | AC Power   | -      | 832 W  | 831 W  | 827 W  | 825 W  | 827 W  | 828 W  |
| 4p      | Broad R4 |                      | AC Current | 5.37 A | 3.08 A | 2.83 A | 2.27 A | 1.81 A | 1.57 A | 1.31 A |
|         |          |                      | AC Power   | 644 W  | 634 W  | 633 W  | 630 W  | 628 W  | 629 W  | 629 W  |
|         | Broad R8 |                      | AC Current | 5.29 A | 3.03 A | 2.79 A | 2.24 A | 1.78 A | 1.55 A | 1.29 A |
|         |          |                      | AC Power   | 634 W  | 625 W  | 623 W  | 621 W  | 619 W  | 620 W  | 620 W  |
| 4i      | Broad R4 |                      | AC Current | -      | 4.09 A | 3.77 A | 3.02 A | 2.40 A | 2.09 A | 1.75 A |
|         |          |                      | AC Power   | -      | 842 W  | 841 W  | 837 W  | 834 W  | 837 W  | 838 W  |
|         | Broad R8 |                      | AC Current | -      | 4.06 A | 3.74 A | 3.00 A | 2.39 A | 2.08 A | 1.73 A |
|         |          |                      | AC Power   | -      | 836 W  | 835 W  | 830 W  | 828 W  | 831 W  | 832 W  |

\* At 77°F (25°C) ambient temperature