

BRUCEC

BRUCEC**700**

BRUCEC**1000**

BRUCEC**2000**

BRUCEC**3500**

BRUCEC**4500**

BRUCEC**6000**

GEWERBLICHE WÄRMERÜCKGEWINNUNGSEINHEIT MIT SEHR HOHER EFFIZIENZ
AUTOMATISCHER BYPASS INKLUSIVE
EC-MOTOREN MIT INVERTER

Wärmerückgewinner: Gegenstrom, vollständig aus Aluminium gefertigt. An diesem ist ein Behälter für die Kondensatableitung vorgesehen.

Struktur: Der Tragrahmen besteht aus Aluminiumprofilen und schalldichten Sandwichpaneelen. Die Geräte sind mit abnehmbaren Paneelen ausgestattet, um Zugang zum Innenraum zu erhalten und ordentliche und außerordentliche Wartungsarbeiten durchzuführen.

Ventilatoren: Plug-Fan mit EC-Brushless-Motor (Modelle BRUCEC700, BRUCEC1000); Radialventilator mit doppelseitiger Ansaugung und direkt gekoppeltem EC-Brushless-Außenläufermotor, komplett mit Frequenzumrichter mit Modbus-Schnittstelle (Modelle BRUCEC2000, BRUCEC3500, BRUCEC4500). Radialventilatoren mit doppelseitiger Ansaugung und rückwärtsgekrümmten Schaufeln mit direkt gekoppeltem EC-Brushless-Motor (BRUCEC6000).

Filter: Die Geräte sind serienmäßig mit gewellten Filterzellen aus Kunstfaser der Klasse G4, einem verzinkten Stahlrahmen und Schutzgittern aus verzinktem Stahldraht ausgestattet.

COMMERCIAL HEAT RECOVERY UNIT WITH VERY HIGH EFICIENCY
AUTOMATIC BY-PASS INCLUDED
EC MOTORS WITH FREQUENCY CONVERTER

Heat recovery: the recuperator is the counterflow type all-aluminium. On the same is installed a condensate drain basin.

Structure: the frame is made of aluminium and galvanized steel sandwich sound proof panels. The units are equipped with removable panels for access to the interior and make routine and extraordinary maintenance.

Fans: plug fan with EC Brushless engine (models BRUCEC700, BRUCEC1000) centrifugal double suction with electric motor with external rotor EC Brushless direct driven complete with frequency converter. Modbus interface (models BRUCEC2000, BRUCEC3500, BRUCEC4500). Double - inlet centrifugal fan with back ward curved blades and directly coupled Brushless EC motor (BRUCEC6000).

Filters: the units are equipped with standard filter cells wavy synthetic fiber efficiency G4, galvanized steel frame and safety nets in electro galvanized steel wire.

	BRUCEC700	BRUCEC1000	BRUCEC2000	BRUCEC3500	BRUCEC4500	BRUCEC6000
Luftdurchsatz (m³/h) | Nominal air flow (mc/h)	700	1000	2000	3500	4500	6000
Nutzbarer statischer Druck (pa) | Useful static pressure (pa)	110	190	390	240	350	170
VDIREKT GEKOPPELTER VENTILATOR (Daten für einzelnen Ventilator) | FANS (data for each fan)						
Nennleistung (w) | Installed power (W)	113	207	1050	1050	2000	2600
I Nennstrom (A) | Current (A)	0,8	1,4	4,51	4,53	9,52	3,7
Spannung (V) | Rated voltage (V)	230	230	230	230	230	400
Frequenz (Hz) | Frequency (HZ)	50	50	50	50	50	50
Geschwindigkeit (Anz.) | Speeds (nr)	1	1	1	1	1	1
FILTER | FILTERS						
Gewellte Acrylfilter Effizienz | Corrugated acrylic efficiency	G4 ISO COARSE > 65 %					

Bei Außentemperaturen < -3 °C ist eine Vorwärmung erforderlich | With fresh air temperature < -3°C it is necessary pre-heating

ÖKODESIGN-DATEN | ECODESIGN DATA SHEET

Modell Model	Effizienz Efficiency	NennLuftdurchsatz Nominal air flow	Nutzbarer statischer Druck Useful static pressure	SFPInt	SFP-2018	Frontale Geschwindigkeit Front Speed	Ventilator-Effizienz Fan efficiency	Interne Leakage Internal leakage	Externe Leakage External leakage
	%	mc/h	pa	w/m³/s	w/m³/s	m/s	%	%	%
BRUCEC700	79,3	700	110	832	1439	1,24	42	6,6	3,9
BRUCEC1000	81,6	1000	190	946	1496	1,56	44	7,3	5,5
BRUCEC2000	80,7	2000	390	1303,2	1526,4	1,69	51	7,3	5,5
BRUCEC3500	81,7	3500	240	1202,4	1497,6	2,75	55	6,8	4,6
BRUCEC4500	81,3	4500	350	1432,8	1440,0	2,85	56	5,9	4,1
BRUCEC6000	79,5	4500	170	1224	1287,5	2,85	55	5,9	4,1

LW-LEISTUNGSPEGEL DER VOM GEHÄUSE AUSGESENDETEN SCHALLLEISTUNG
SOUND POWER LW RADIATED FROM THE CASING SHEET

Modell Model	Messdaten bei maximaler Geschwindigkeit | Data measured at maximum speed Frequenz | Frequency (Hz)							
	125	250	500	1000	2000	4000	8000	LwdB(A)
BRUCEC700	60,7	63,4	57,2	54,4	43,9	40,1	41,6	58,7
BRUCEC1000	63	65,2	59,4	56,3	46,6	41,3	43,8	61,6
BRUCEC2000	64,3	73,3	65,2	57,9	50,1	43,3	41,2	67
BRUCEC3500	73,4	76,2	68,4	59	53,4	44,6	44,4	70,3
BRUCEC4500	74,2	78,7	70,5	62,3	55,3	46,4	47,1	71,6
BRUCEC6000	78,7	82,4	74,6	66,4	59,9	51,6	52,4	75,8

LW-LEISTUNGSPEGEL DER VOM VENTILATOR AUSGESENDETEN SCHALLLEISTUNG
SOUND POWER LW RADIATED FROM THE FAN

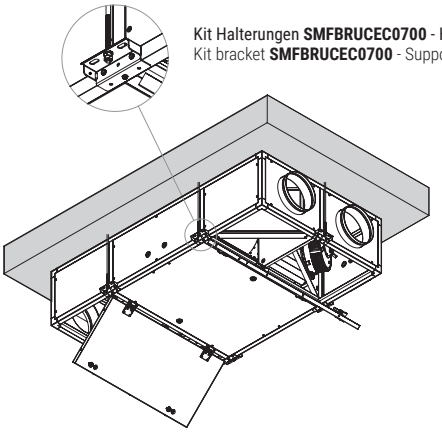
Modell Model	Messdaten bei maximaler Geschwindigkeit | Data measured at maximum speed Frequenz | Frequency (Hz)							
	125	250	500	1000	2000	4000	8000	LwdB(A)
BRUCEC700	61,9	69,5	62,4	57,2	56,7	52,9	63,2	67,3
BRUCEC1000	64,2	73	66,7	60,6	61,9	56,4	65,3	70,6
BRUCEC2000	72,4	83,2	77,1	77,4	72,2	67,1	75,2	80,3
BRUCEC3500	74,2	78	78,4	76,6	73,1	71,4	74,6	79,2
BRUCEC4500	75,3	81,5	80,2	78,2	74,5	72,9	76,4	78,2
BRUCEC6000	80,1	85,4	84,6	82,1	77,6	76,5	79,7	82,3

ZEICHNUNGEN | DRAWINGS

BRUCEC700

HORIZONTALE INSTALLATION | HORIZONTAL INSTALLATION

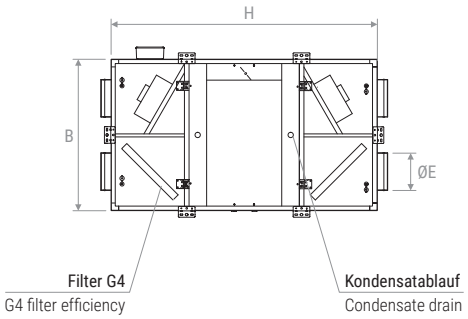
GEWICHT | WEIGHT: **135 kg**



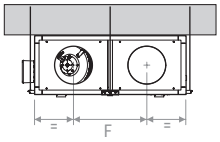
Kit Halterungen **SMFBRUCEC0700** - Halterung mit Ösen Ø9 (optional)
Kit bracket **SMFBRUCEC0700** - Support bracket with slot Ø9 (optional)

Die für die Befestigung des Bügels am Gerät zu verwendenden Schrauben sind selbstbohrende Schrauben 4,8x25 mm mit Sechskantkopf (nicht im Lieferumfang enthalten).
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

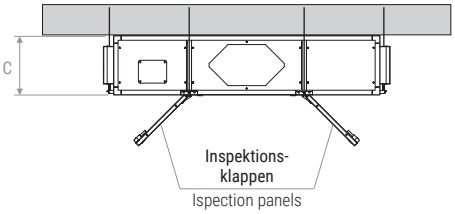
Ansicht von unten | Bottom view



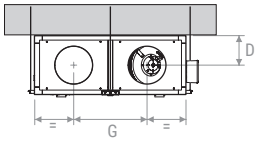
Vorderansicht | Front view



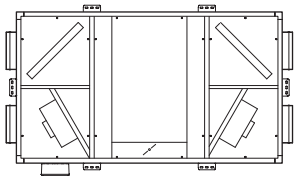
Seitenansicht | Side view



Rückansicht | Rear view



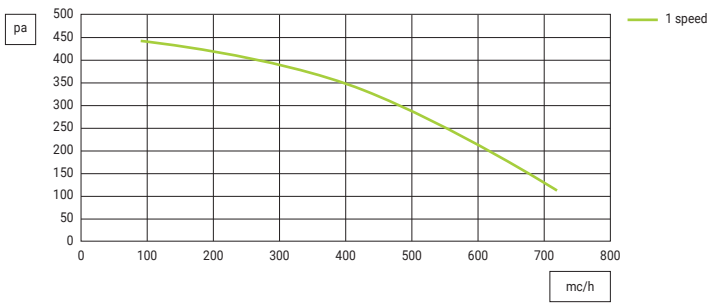
Ansicht von oben | Top view



	H	B	C	D	ØE	F	G
mm	1760	1000	390	195	250	485	485

LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

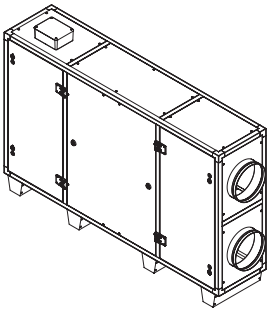
Nutzbarer statischer Druck
Useful static pressure



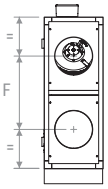
ZEICHNUNGEN | DRAWINGS

BRUCEC700

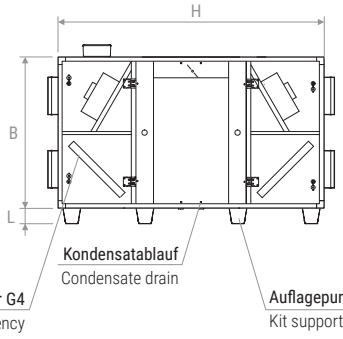
VERTIKALE INSTALLATION | VERTICAL INSTALLATION



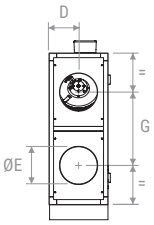
Seitenansicht rechts
Right side view



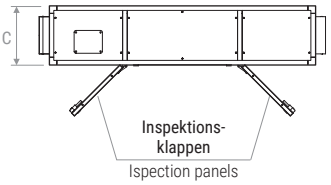
Inspektionsseite
Inspection side



Seitenansicht links
Left side view



Draufsicht | Upper view

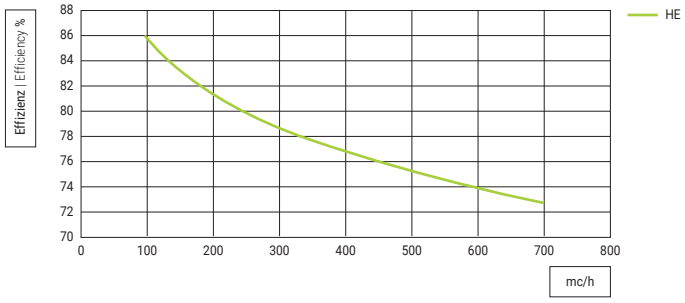


	H	B	C	D	ØE	F	G	L
mm	1760	1000	390	175	250	485	485	100

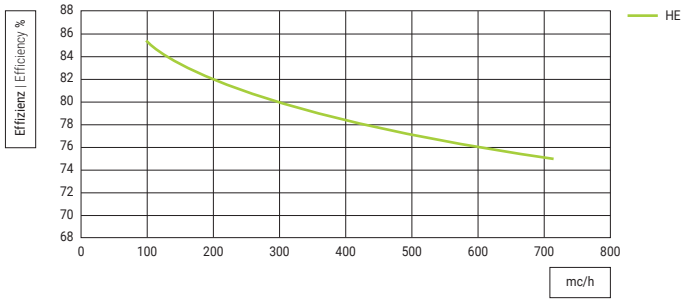
LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

WÄRMETAUSCHER ZERTIFIZIERT NACH EN 308 | HEAT EXCHANGER EN 308 CERTIFIED

Sommerwirkungsgrad-Diagramm
Außenluft: 32 °C / 50 % R.F.
Raumluft: 26 °C / 50 % R.F.
Summer efficiency chart
Fresh air: 32 °C / 50 % R.H.
Return air: 26 °C / 50 % R.H.



Winterwirkungsgrad-Diagramm
Außenluft: - 5 °C / 80 % R.F.
Raumluft: 20 °C / 50 % R.F.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



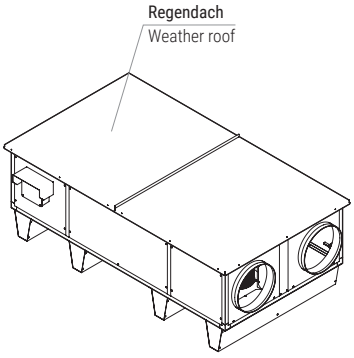
PROFESSIONAL

ZEICHNUNGEN | DRAWINGS

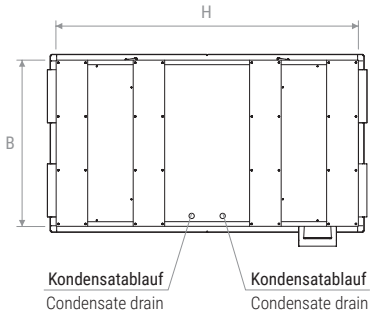
BRUCEC700

HORIZONTALE AUSSENINSTALLATION | HORIZONTAL EXTERNAL INSTALLATION

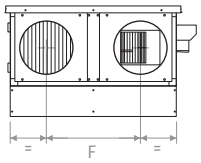
GEWICHT | WEIGHT: **145 kg**



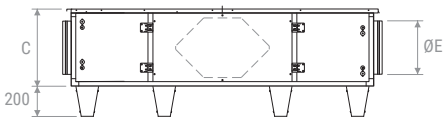
Ansicht von unten | Bottom view



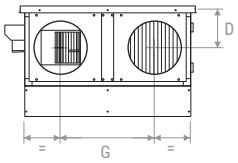
Vorderansicht | Front view



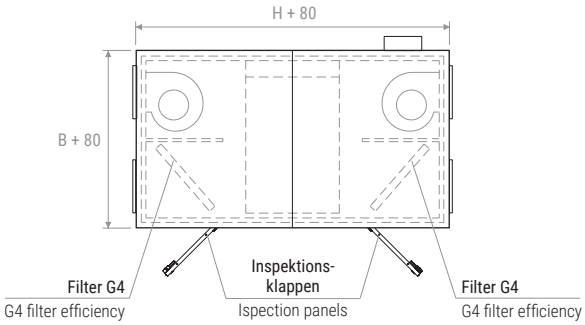
Seitenansicht | Side view



Rückansicht | Rear view



Ansicht von oben | Top view

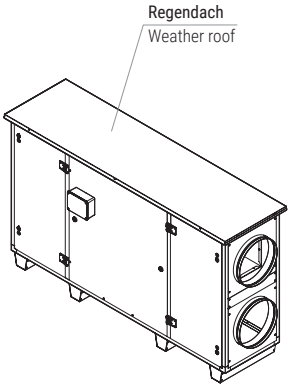


	H	B	C	D	ØE	F	G
mm	1760	1000	390	195	250	485	485

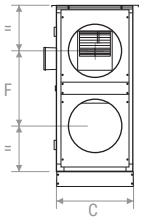
ZEICHNUNGEN | DRAWINGS

BRUCEC700

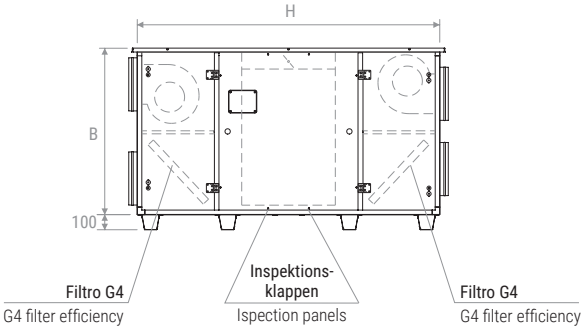
VERTIKALE AUSSENINSTALLATION | VERTICAL EXTERNAL INSTALLATION



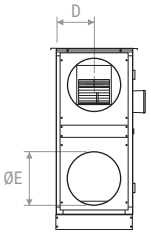
Vorderansicht | Front view



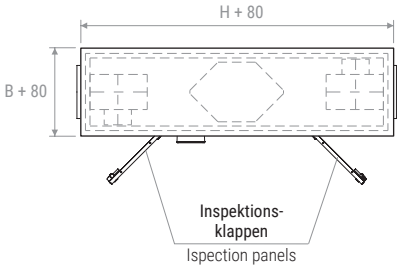
Inspektionsseite | Inspection side



Rückansicht | Rear view



Draufsicht | Upper view



	H	B	C	D	ØE	F	G
mm	1760	1000	390	195	250	485	485

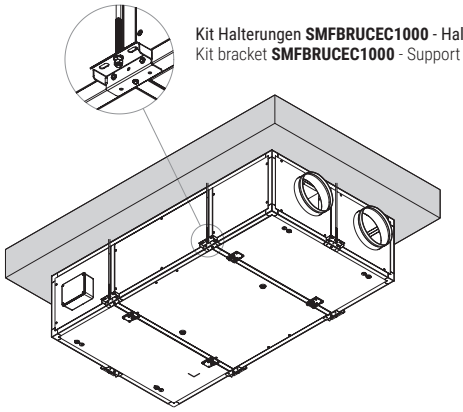
PROFESSIONAL

ZEICHNUNGEN | DRAWINGS

BRUCEC1000

HORIZONTALE INSTALLATION | HORIZONTAL INSTALLATION

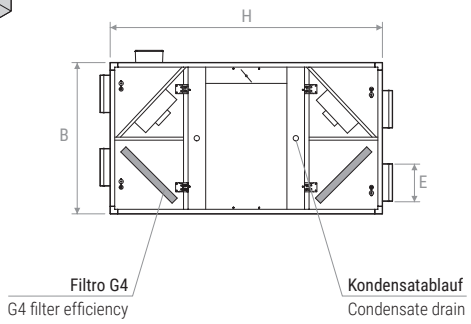
GEWICHT | WEIGHT: **150 kg**



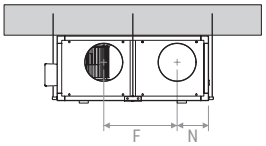
Kit Halterungen **SMFBRUCEC1000** - Halterung mit Ösen Ø9 (optional)
Kit bracket **SMFBRUCEC1000** - Support bracket with slot Ø9 (optional)

Die für die Befestigung des Bügels am Gerät zu verwendenden Schrauben sind selbstbohrende Schrauben 4,8x25 mm mit Sechskantkopf (nicht im Lieferumfang enthalten).
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

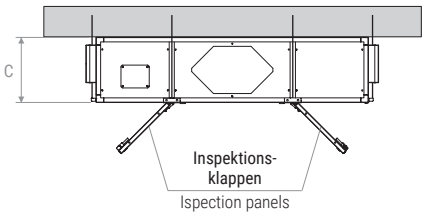
Ansicht von unten | Bottom view



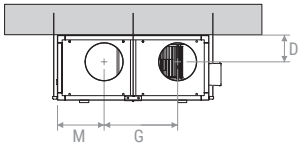
Vorderansicht | Front view



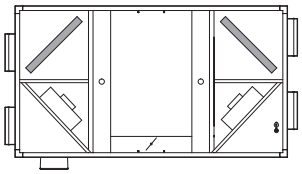
Seitenansicht | Side view



Rückansicht | Rear view



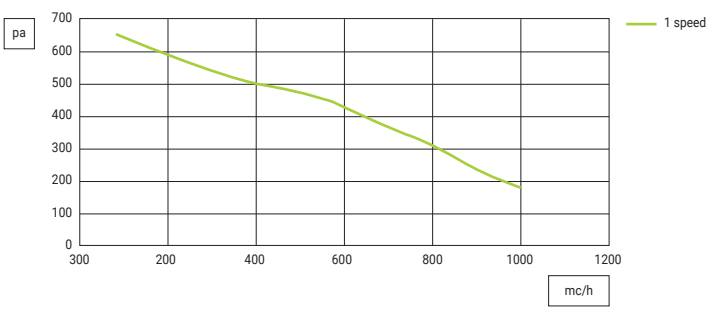
Ansicht von oben | Top view



	H	B	C	D	ØE	F	G	M	N
mm	1800	1000	430	175	250	485	485	308	207

LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

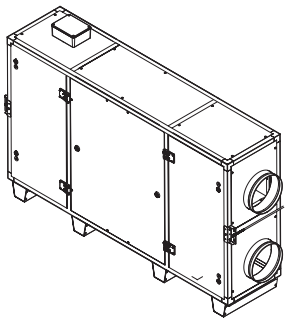
Nutzbarer statischer Druck
Useful static pressure

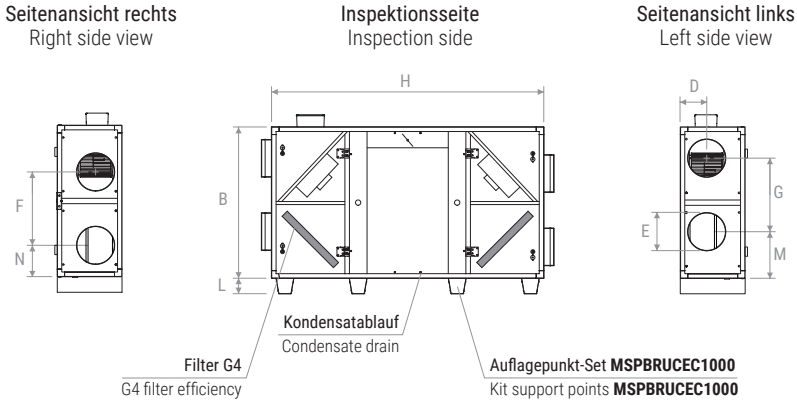


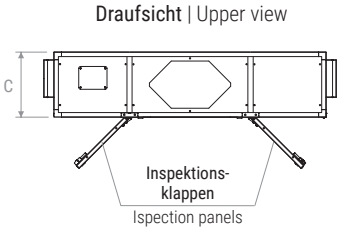
ZEICHNUNGEN | DRAWINGS

BRUCEC1000

VERTIKALE INSTALLATION | VERTICAL INSTALLATION





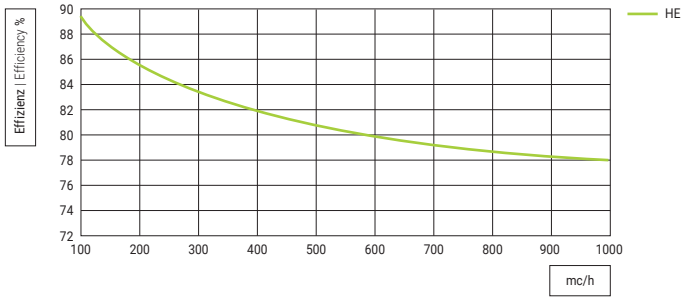


	H	B	C	D	ØE	F	G	L	M	N
mm	1800	1000	430	175	250	485	485	100	308	207

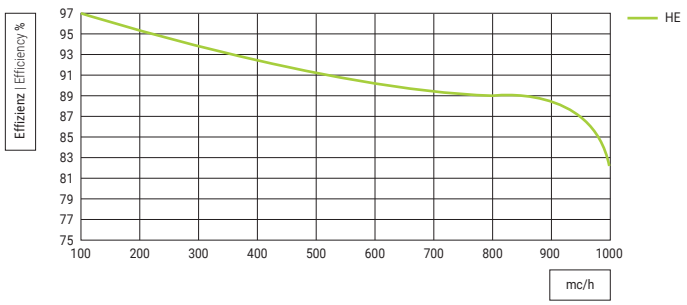
LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

WÄRMETAUSCHER ZERTIFIZIERT NACH EN 308 | HEAT EXCHANGER EN 308 CERTIFIED

Sommerwirkungsgrad-Diagramm
Außenluft: 32 °C / 50 % R.F.
Raumluft: 26 °C / 50 % R.F.
Summer efficiency chart
Fresh air: 32 °C / 50 % R.H.
Return air: 26 °C / 50 % R.H.



Winterwirkungsgrad-Diagramm
Außenluft: - 5 °C / 80 % R.F.
Raumluft: 20 °C / 50 % R.F.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.

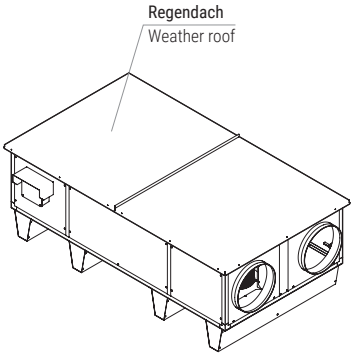


PROFESSIONAL

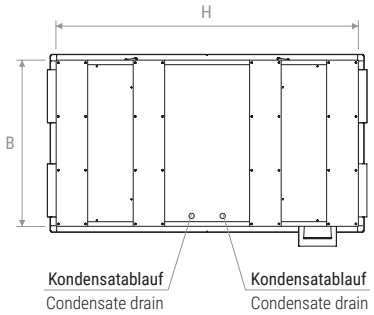
ZEICHNUNGEN | DRAWINGS **BRUCEC1000**

HORIZONTALE AUSSENINSTALLATION | HORIZONTAL EXTERNAL INSTALLATION

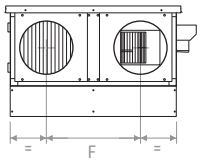
GEWICHT | WEIGHT: **160 kg**



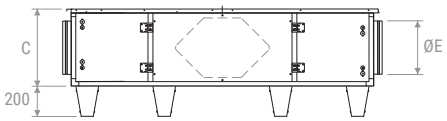
Ansicht von unten | Bottom view



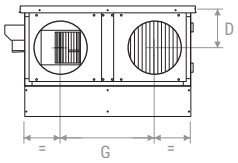
Vorderansicht | Front view



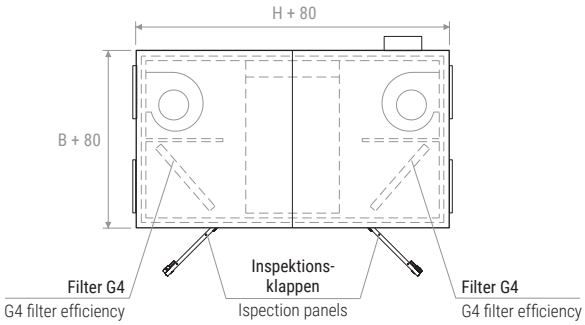
Seitenansicht | Side view



Rückansicht | Rear view



Ansicht von oben | Top view

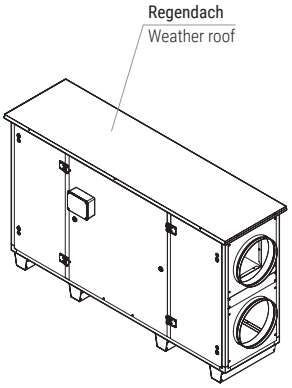


	H	B	C	D	ØE	F	G
mm	1800	1000	430	175	250	485	485

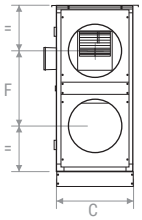
ZEICHNUNGEN | DRAWINGS

BRUCEC1000

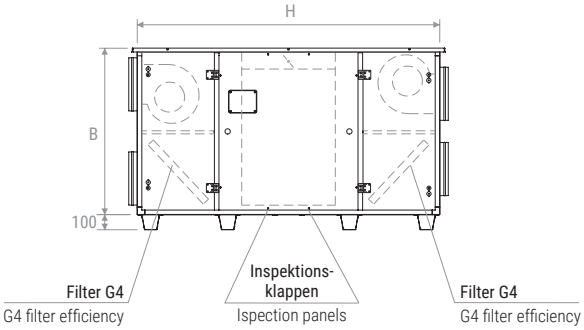
VERTIKALE AUSSENINSTALLATION | VERTICAL EXTERNAL INSTALLATION



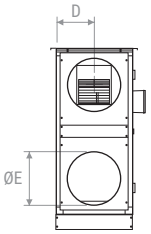
Vorderansicht | Front view



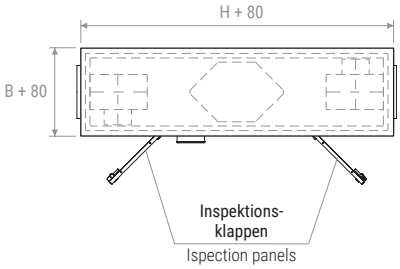
Inspektionsseite | Inspection side



Rückansicht | Rear view



Draufsicht | Upper view



	H	B	C	D	ØE	F	G
mm	1800	1000	430	175	250	485	485

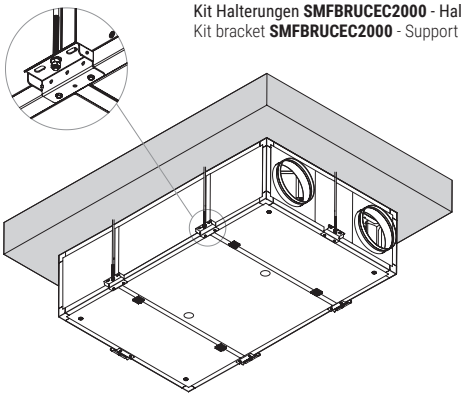
PROFESSIONAL

ZEICHNUNGEN | DRAWINGS

BRUCEC2000

HORIZONTALE INSTALLATION | HORIZONTAL INSTALLATION

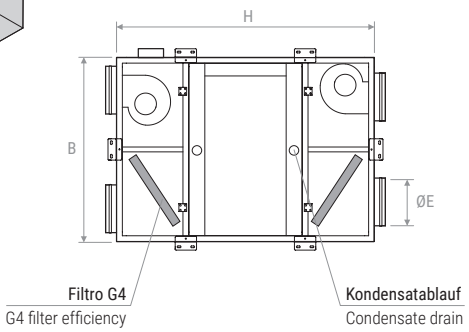
GEWICHT | WEIGHT: **215 kg**



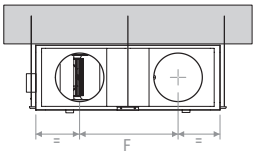
Kit Halterungen **SMFBRUCEC2000** - Halterung mit Ösen Ø9 (optional)
Kit bracket **SMFBRUCEC2000** - Support bracket with slot Ø9 (optional)

Die für die Befestigung des Bügels am Gerät zu verwendenden Schrauben sind selbstbohrende Schrauben 4,8x25 mm mit Sechskantkopf (nicht im Lieferumfang enthalten).
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

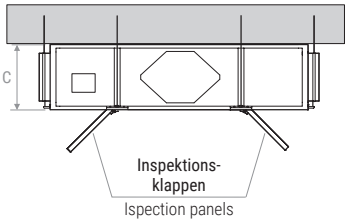
Ansicht von unten | Bottom view



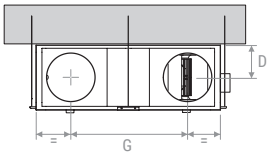
Vorderansicht | Front view



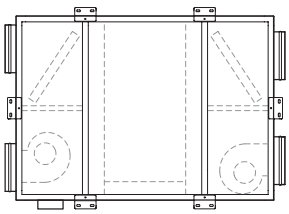
Seitenansicht | Side view



Rückansicht | Rear view



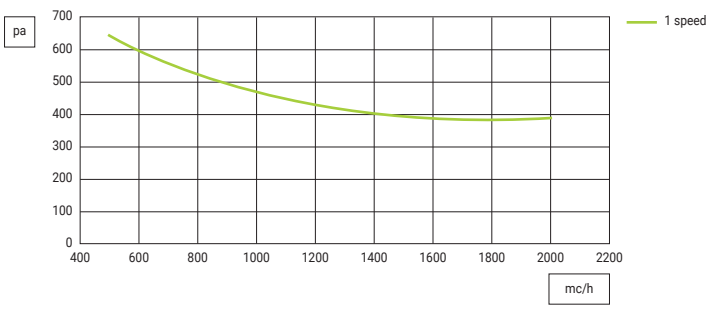
Ansicht von oben | Top view



	H	B	C	D	ØE	F	G
mm	2000	1100	510	255	355	498	622

LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

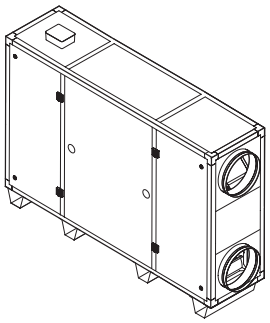
Nutzbarer statischer Druck
Useful static pressure

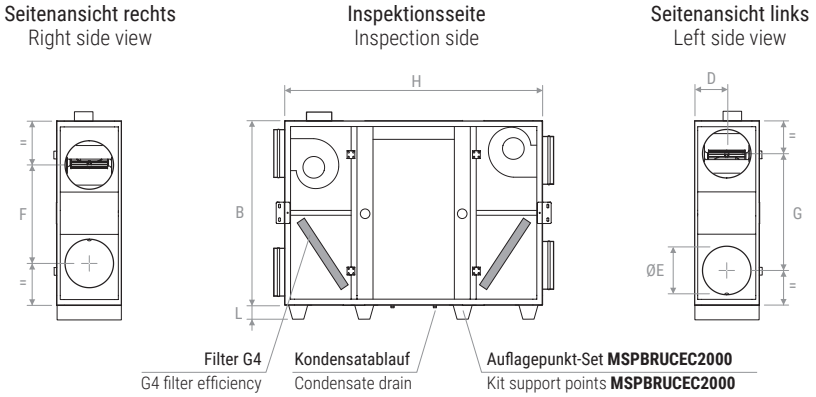


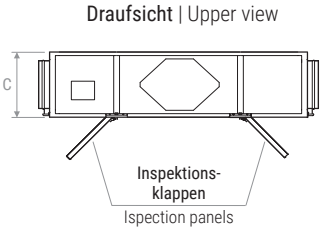
ZEICHNUNGEN | DRAWINGS

BRUCEC2000

VERTIKALE INSTALLATION | VERTICAL INSTALLATION





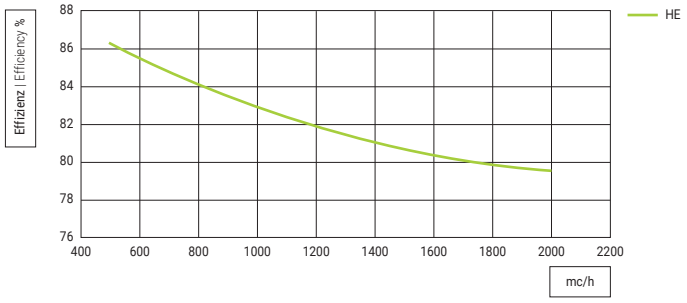


	H	B	C	D	ØE	F	G	L
mm	2000	1100	510	255	355	498	622	100

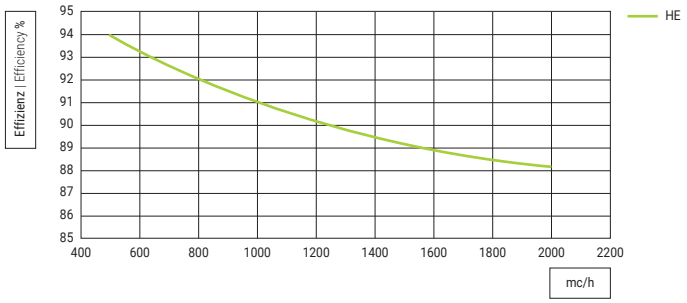
LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

WÄRMETAUSCHER ZERTIFIZIERT NACH EN 308 | HEAT EXCHANGER EN 308 CERTIFIED

Sommerwirkungsgrad-Diagramm
Außenluft: 32 °C / 50 % R.F.
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Raumluft: 20 °C / 50 % R.F.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.

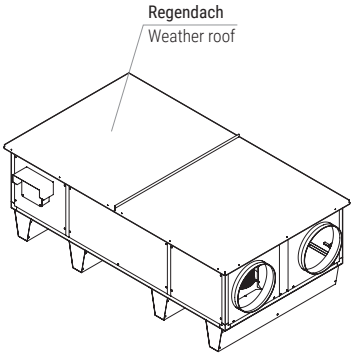


PROFESSIONAL

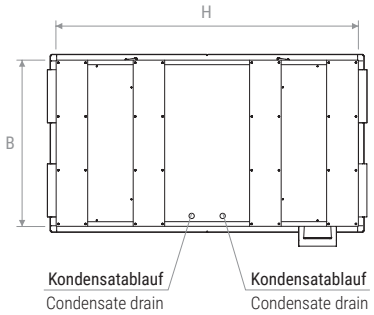
ZEICHNUNGEN | DRAWINGS **BRUCEC2000**

HORIZONTALE AUSSENINSTALLATION | HORIZONTAL EXTERNAL INSTALLATION

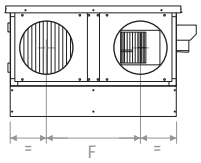
GEWICHT | WEIGHT: **225 kg**



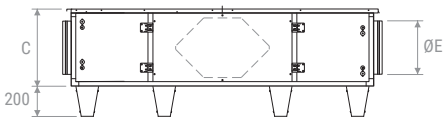
Ansicht von unten | Bottom view



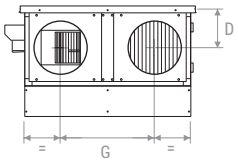
Vorderansicht | Front view



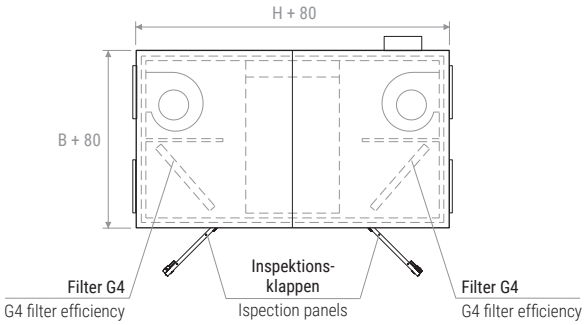
Seitenansicht | Side view



Rückansicht | Rear view



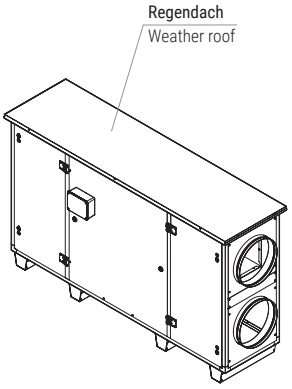
Ansicht von oben | Top view



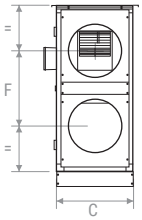
	H	B	C	D	ØE	F	G
mm	2000	1100	510	255	355	498	622

ZEICHNUNGEN | DRAWINGS

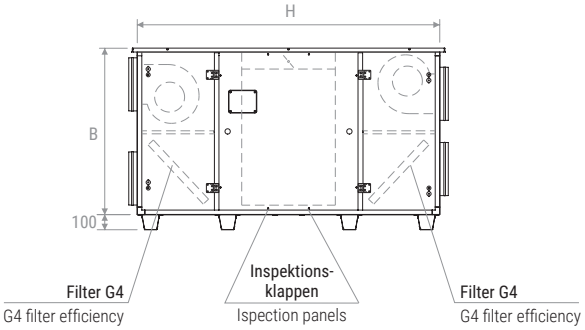
VERTIKALE AUSSENINSTALLATION | VERTICAL EXTERNAL INSTALLATION



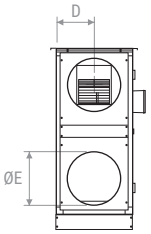
Vorderansicht | Front view



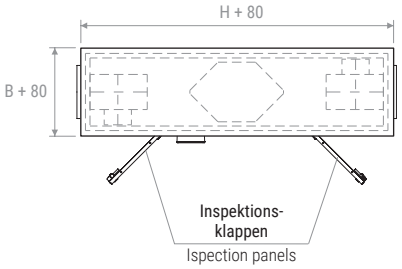
Inspektionsseite | Inspection side



Rückansicht | Rear view



Draufsicht | Upper view



	H	B	C	D	ØE	F	G
mm	2000	1100	510	255	355	498	622

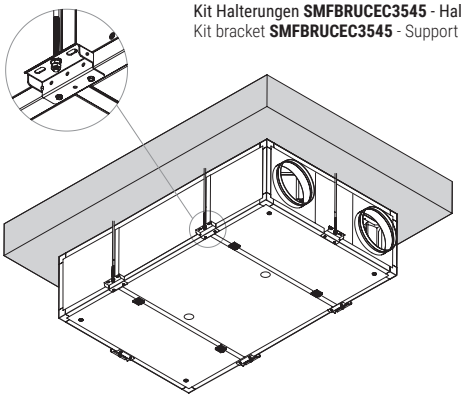
PROFESSIONAL

ZEICHNUNGEN | DRAWINGS

BRUCEC3500

HORIZONTALE INSTALLATION | HORIZONTAL INSTALLATION

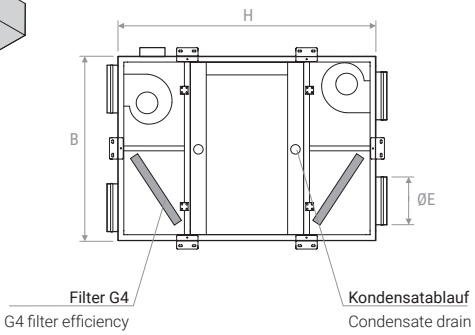
GEWICHT | WEIGHT: **360 kg**



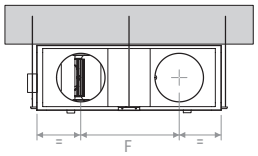
Kit Halterungen **SMFBRUCEC3545** - Halterung mit Ösen Ø9 (optional)
Kit bracket **SMFBRUCEC3545** - Support bracket with slot Ø9 (optional)

Die für die Befestigung des Bügels am Gerät zu verwendenden Schrauben sind selbstbohrende Schrauben 4,8x25 mm mit Sechskantkopf (nicht im Lieferumfang enthalten).
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

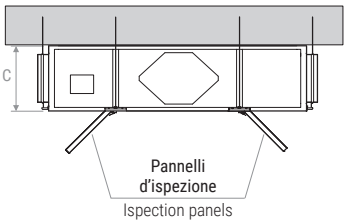
Ansicht von unten | Bottom view



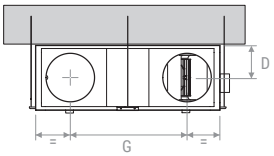
Vorderansicht | Front view



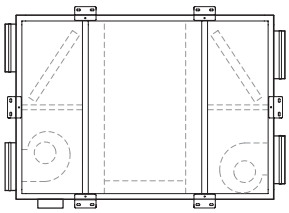
Seitenansicht | Side view



Vorderansicht | Front view



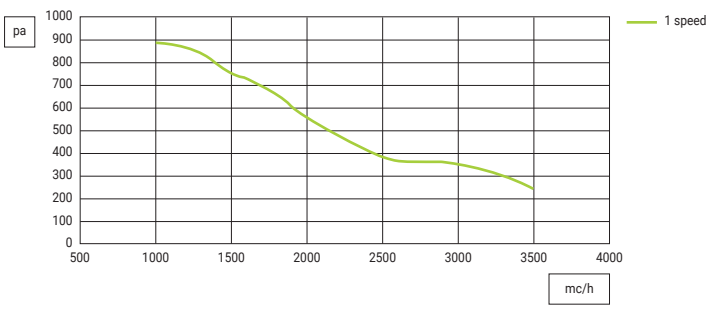
Ansicht von oben | Top view



	H	B	C	D	ØE	F	G
mm	2250	1400	650	365	355	860	860

LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

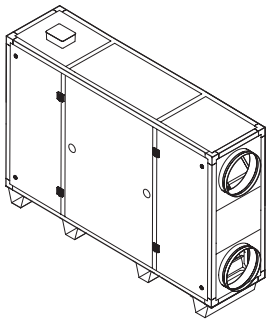
Nutzbarer statischer Druck
Useful static pressure



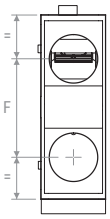
ZEICHNUNGEN | DRAWINGS

BRUCEC3500

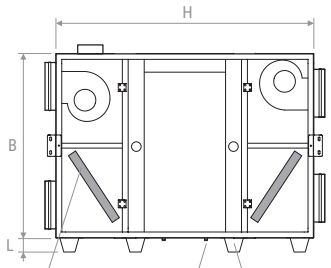
VERTIKALE INSTALLATION | VERTICAL INSTALLATION



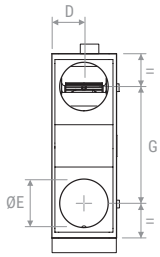
Seitenansicht rechts
Right side view



Inspektionsseite
Inspection side



Seitenansicht links
Left side view

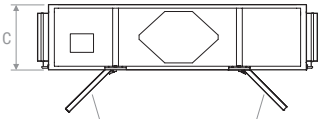


Filter G4
G4 filter efficiency

Kondensatablauf
Condensate drain

Auflagepunkt-Set **MSPBRUCEC3545**
Kit support points **MSPBRUCEC3545**

Draufsicht | Upper view



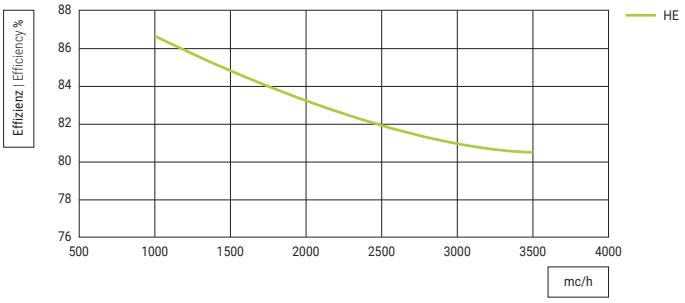
Inspektions-
klappen
Ispection panels

	H	B	C	D	ØE	F	G	L
mm	2250	1400	650	365	355	860	860	100

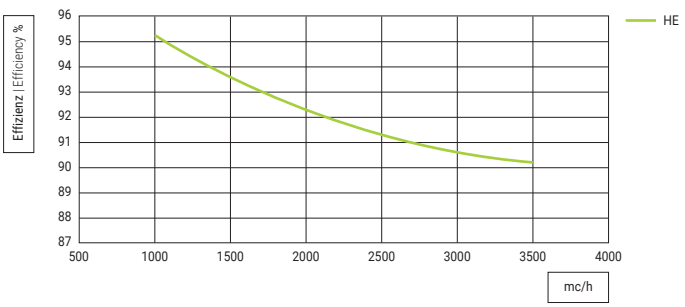
LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

WÄRMETAUSCHER ZERTIFIZIERT NACH EN 308 | HEAT EXCHANGER EN 308 CERTIFIED

Sommerwirkungsgrad-Diagramm
Außenluft: 32 °C / 50 % R.F.
Raumluft: 26 °C / 50 % R.F.
Summer efficiency chart
Fresh air: 32 °C / 50 % R.H.
Return air: 26 °C / 50 % R.H.



Winterwirkungsgrad-Diagramm
Außenluft: - 5 °C / 80 % R.F.
Raumluft: 20 °C / 50 % R.F.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.

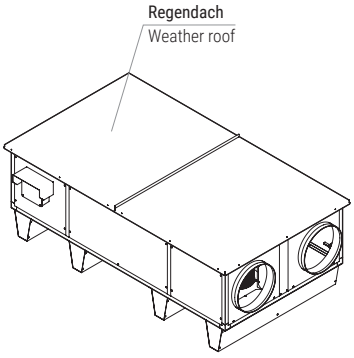


PROFESSIONAL

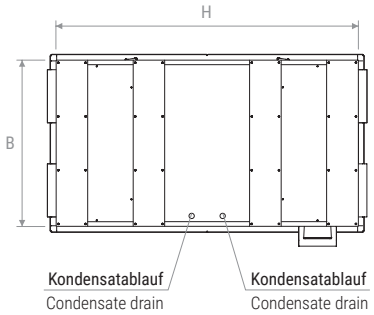
ZEICHNUNGEN | DRAWINGS **BRUCEC3500**

HORIZONTALE AUSSENINSTALLATION | HORIZONTAL EXTERNAL INSTALLATION

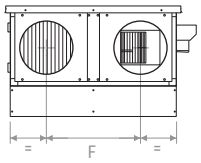
GEWICHT | WEIGHT: **370 kg**



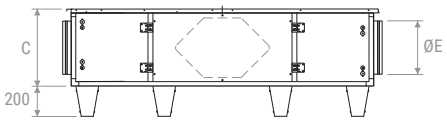
Ansicht von unten | Bottom view



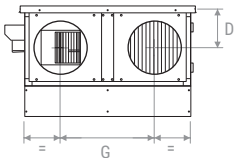
Vorderansicht | Front view



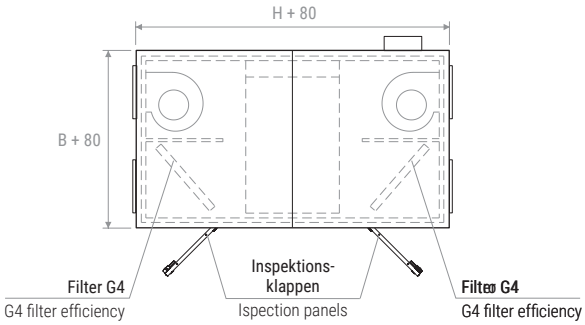
Seitenansicht | Side view



Rückansicht | Rear view



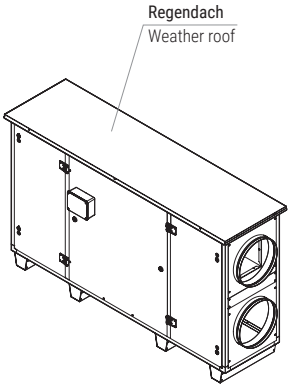
Ansicht von oben | Top view



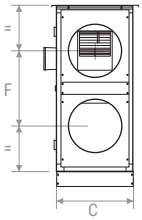
	H	B	C	D	ØE	F	G
mm	2250	1400	650	365	355	860	860

ZEICHNUNGEN | DRAWINGS

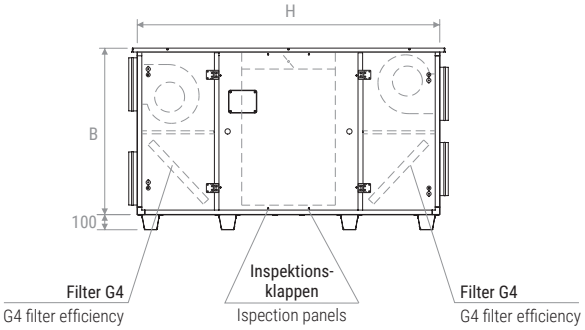
VERTIKALE AUSSENINSTALLATION | VERTICAL EXTERNAL INSTALLATION



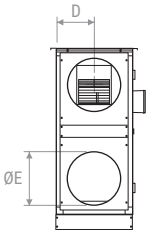
Vorderansicht | Front view



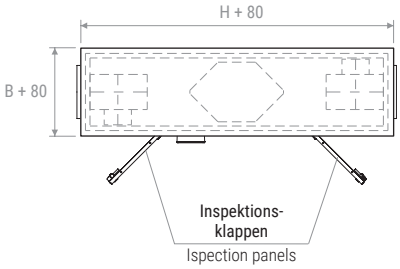
Inspektionsseite | Inspection side



Rückansicht | Rear view



Draufsicht | Upper view



	H	B	C	D	ØE	F	G
mm	2250	1400	650	365	355	860	860

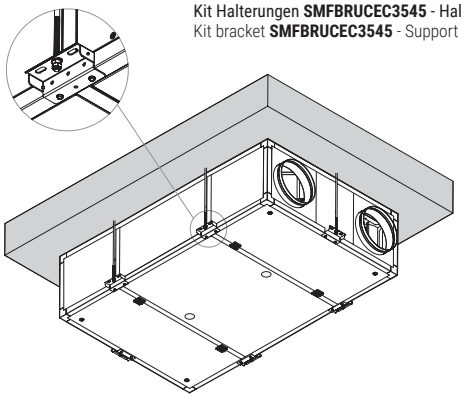
PROFESSIONAL

ZEICHNUNGEN | DRAWINGS

BRUCEC4500

HORIZONTALE INSTALLATION | HORIZONTAL INSTALLATION

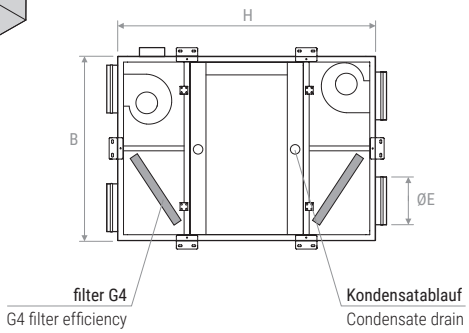
GEWICHT | WEIGHT: **400 kg**



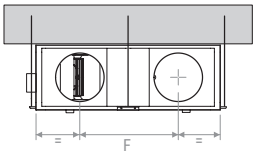
Kit Halterungen **SMFBRUCEC3545** - Halterung mit Ösen Ø9 (optional)
Kit bracket **SMFBRUCEC3545** - Support bracket with slot Ø9 (optional)

Die für die Befestigung des Bügels am Gerät zu verwendenden Schrauben sind selbstbohrende Schrauben 4,8x25 mm mit Sechskantkopf (nicht im Lieferumfang enthalten).
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

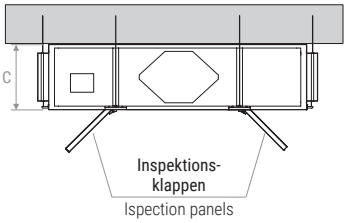
Ansicht von unten | Bottom view



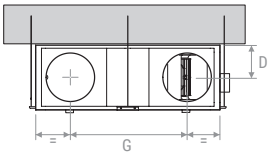
Vorderansicht | Front view



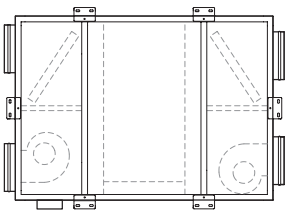
Seitenansicht | Side view



Rückansicht | Rear view



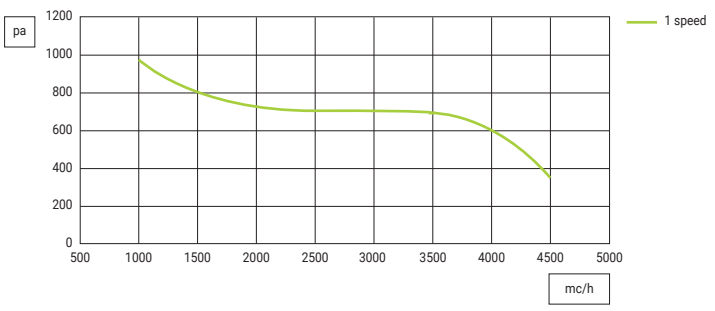
Ansicht von oben | Top view



	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

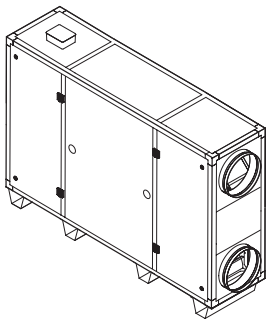
Nutzbarer statischer Druck
Useful static pressure



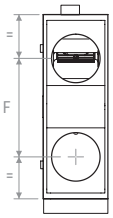
ZEICHNUNGEN | DRAWINGS

BRUCEC4500

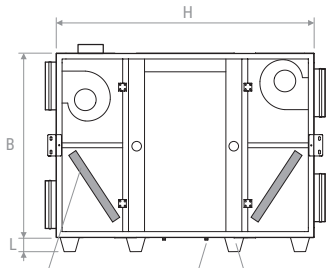
VERTIKALE INSTALLATION | VERTICAL INSTALLATION



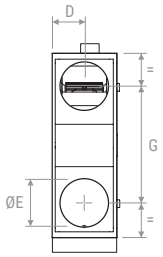
Seitenansicht rechts
Right side view



Inspektionsseite
Inspection side



Seitenansicht links
Left side view

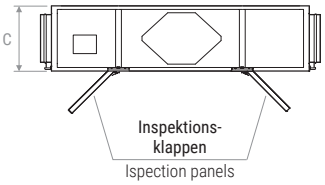


Filter G4
G4 filter efficiency

Kondensatablauf
Condensate drain

Auflagepunkt-Set **MSPBRUCEC3545**
Kit support points **MSPBRUCEC3545**

Draufsicht | Upper view

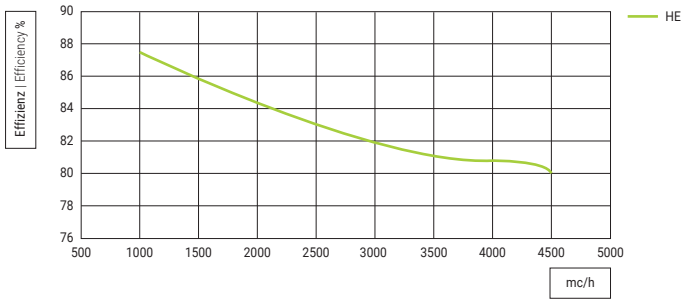


	H	B	C	D	ØE	F	G	L
mm	2500	1650	650	365	400	985	985	100

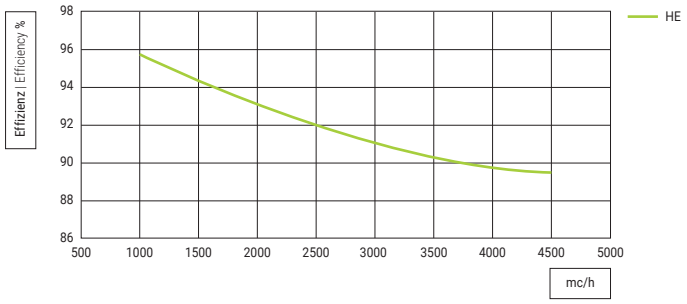
LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

WÄRMETAUSCHER ZERTIFIZIERT NACH EN 308 | HEAT EXCHANGER EN 308 CERTIFIED

Sommerwirkungsgrad-Diagramm
Außenluft: 32 °C / 50 % R.F.
Raumluft: 26 °C / 50 % R.F.
Summer efficiency chart
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Winterwirkungsgrad-Diagramm
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Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.

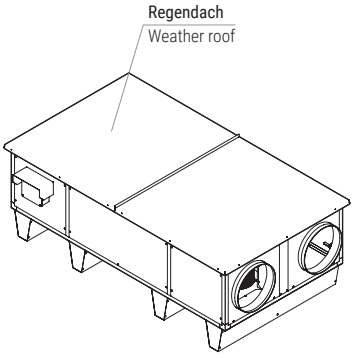


PROFESSIONAL

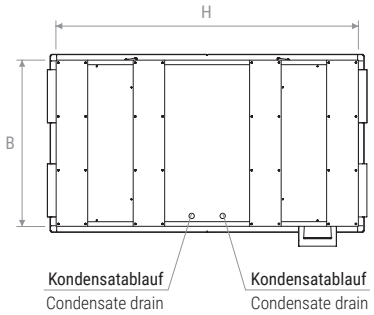
ZEICHNUNGEN | DRAWINGS **BRUCEC4500**

HORIZONTALE AUSSENINSTALLATION | HORIZONTAL EXTERNAL INSTALLATION

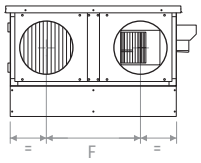
GEWICHT | WEIGHT: **410 kg**



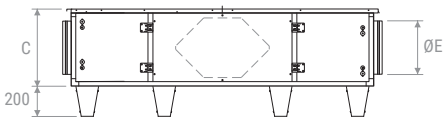
Ansicht von unten | Bottom view



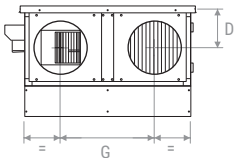
Vorderansicht | Front view



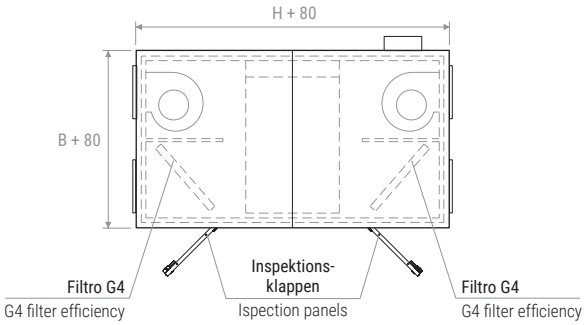
Seitenansicht | Side view



Rückansicht | Rear view



Ansicht von oben | Top view

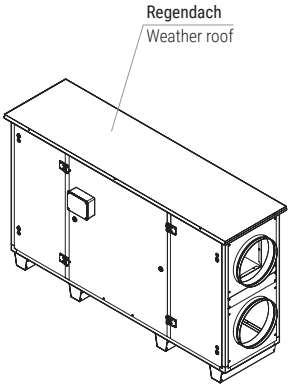


	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

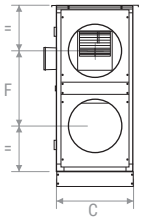
ZEICHNUNGEN | DRAWINGS

BRUCEC4500

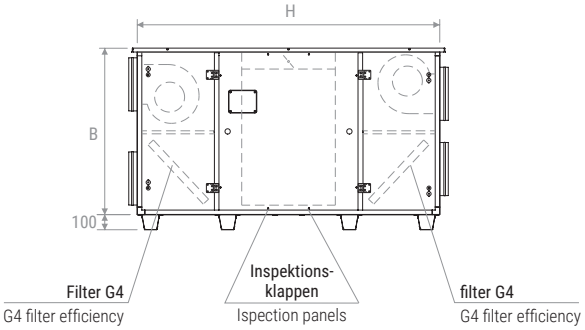
VERTIKALE AUSSENINSTALLATION | VERTICAL EXTERNAL INSTALLATION



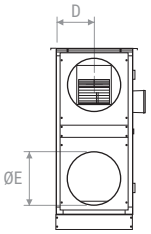
Vorderansicht | Front view



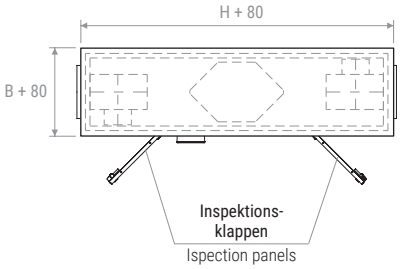
Inspektionsseite | Inspection side



Rückansicht | Rear view



Draufsicht | Upper view



	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

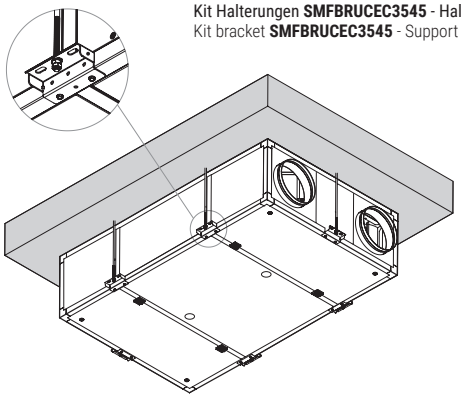
PROFESSIONAL

ZEICHNUNGEN | DRAWINGS

BRUCEC6000

HORIZONTALE INSTALLATION | HORIZONTAL INSTALLATION

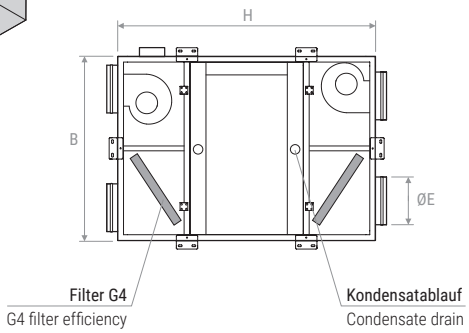
GEWICHT | WEIGHT: **450 kg**



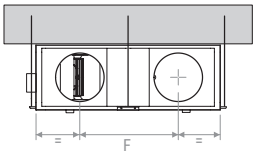
Kit Halterungen **SMFBRUCEC3545** - Halterung mit Ösen Ø9 (optional)
Kit bracket **SMFBRUCEC3545** - Support bracket with slot Ø9 (optional)

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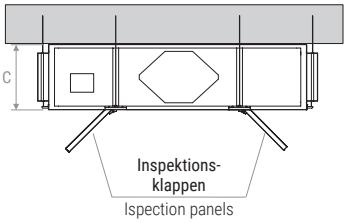
Ansicht von unten | Bottom view



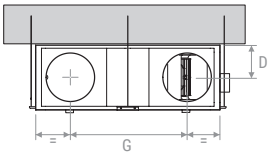
Vorderansicht | Front view



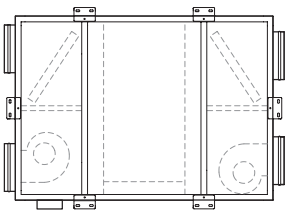
Seitenansicht | Side view



Rückansicht | Rear view



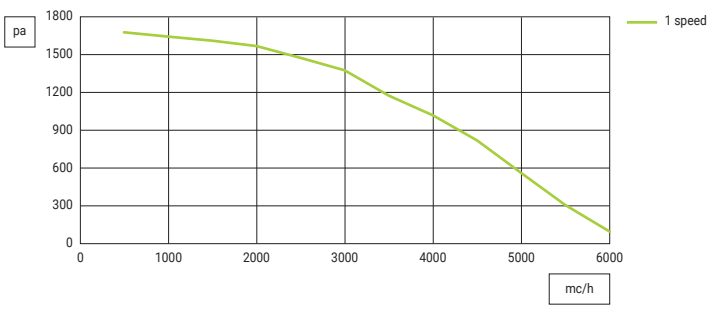
Ansicht von oben | Top view



	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

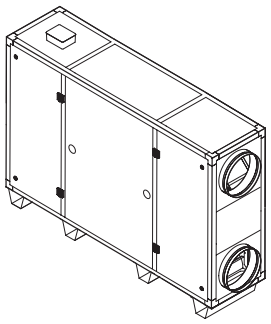
Nutzbarer statischer Druck
Useful static pressure

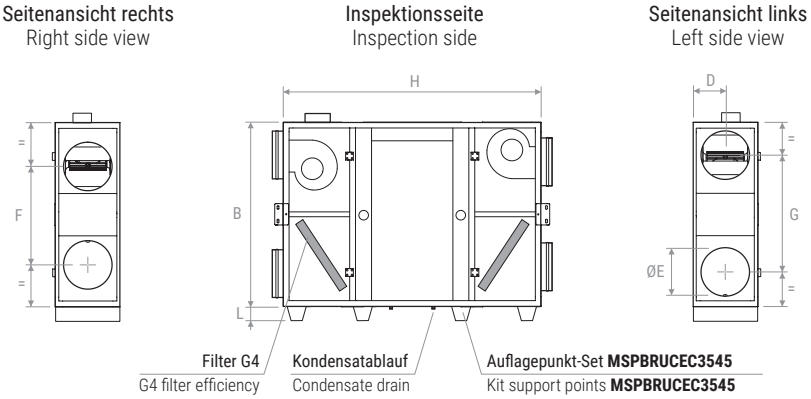


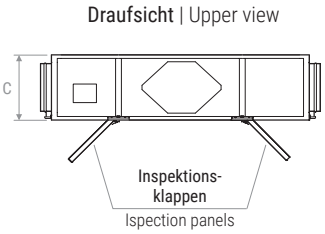
ZEICHNUNGEN | DRAWINGS

BRUCEC6000

VERTIKALE INSTALLATION | VERTICAL INSTALLATION





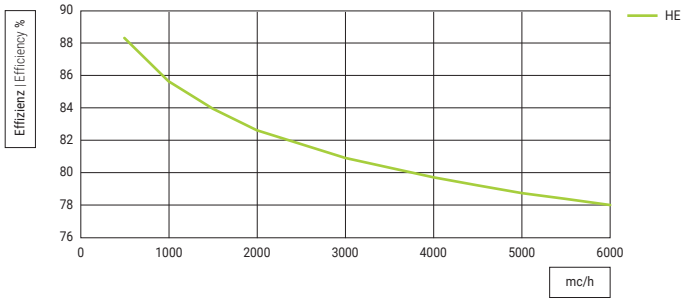


	H	B	C	D	ØE	F	G	L
mm	2500	1650	650	365	400	985	985	100

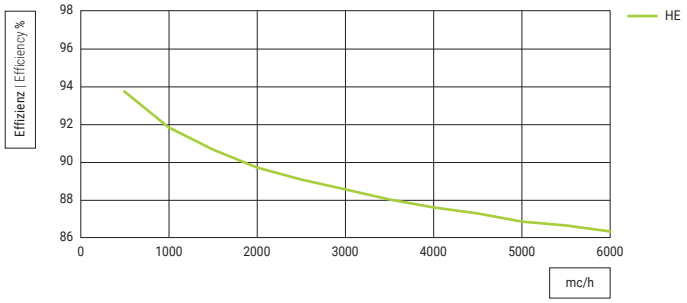
LEISTUNGSDIAGRAMME | PERFORMANCE CHARTS

WÄRMETAUSCHER ZERTIFIZIERT NACH EN 308 | HEAT EXCHANGER EN 308 CERTIFIED

Sommerwirkungsgrad-Diagramm
Außenluft: 32 °C / 50 % R.F.
Raumluft: 26 °C / 50 % R.F.
Summer efficiency chart
Fresh air: 32 °C / 50 % R.H.
Return air: 26 °C / 50 % R.H.



Winterwirkungsgrad-Diagramm
Außenluft: - 5 °C / 80 % R.F.
Raumluft: 20 °C / 50 % R.F.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



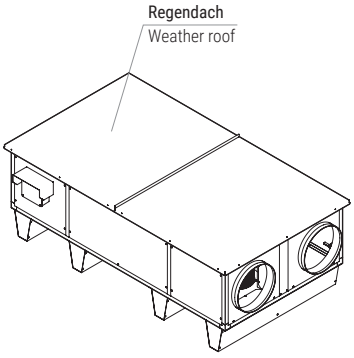
PROFESSIONAL

ZEICHNUNGEN | DRAWINGS

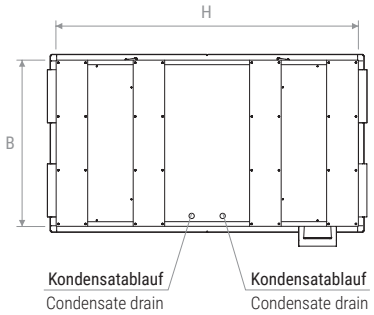
BRUCEC6000

HORIZONTALE AUSSENINSTALLATION | HORIZONTAL EXTERNAL INSTALLATION

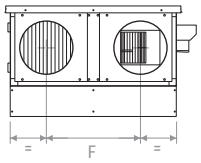
GEWICHT | WEIGHT: **460 kg**



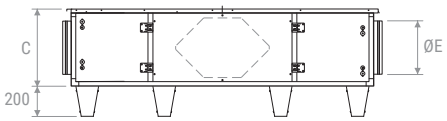
Ansicht von unten | Bottom view



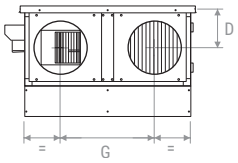
Vorderansicht | Front view



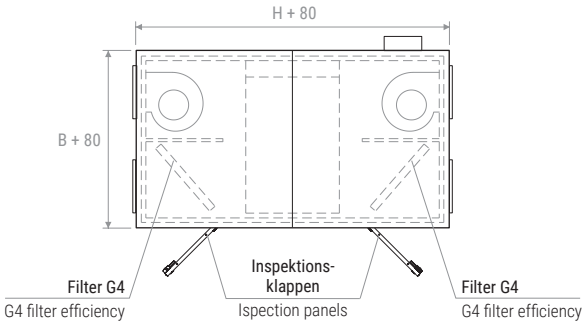
Seitenansicht | Side view



Rückansicht | Rear view



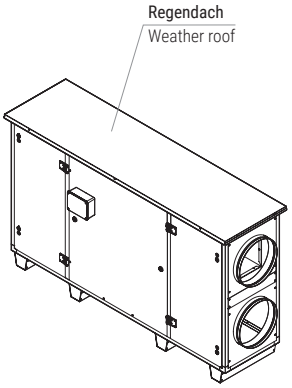
Ansicht von oben | Top view



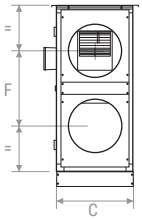
	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

ZEICHNUNGEN | DRAWINGS

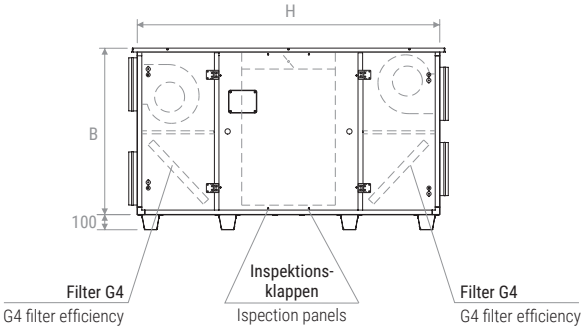
VERTIKALE AUSSENINSTALLATION | VERTICAL EXTERNAL INSTALLATION



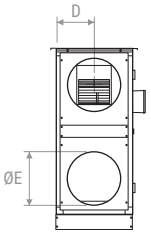
Vorderansicht | Front view



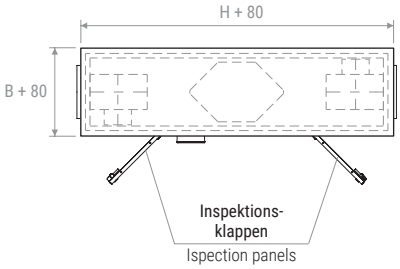
Inspektionsseite | Inspection side



Rückansicht | Rear view



Draufsicht | Upper view

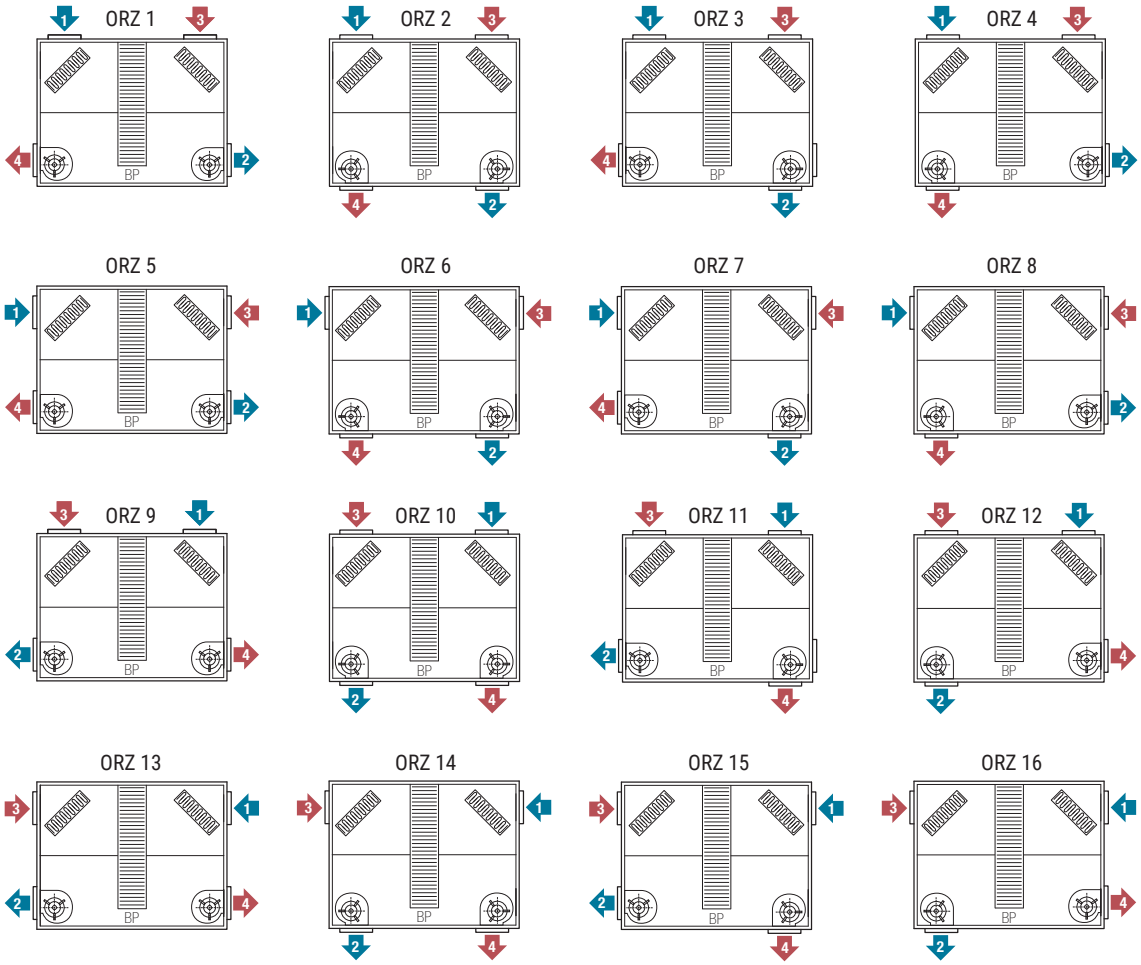


	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

PROFESSIONAL

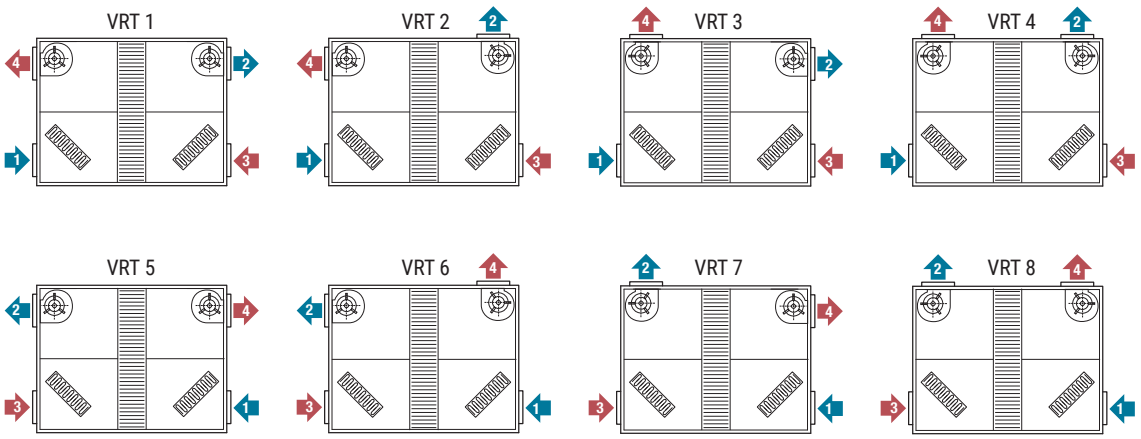
KONFIGURATION | CONFIGURATION

AUSRICHTUNG DER HORIZONTALEN VERSION (Draufsicht) | CONFIGURATIONS HORIZONTAL VERSION (top view)



ORZ 5 = STANDARD

AUSRICHTUNG VERTIKALE VERSION (Vorderansicht Inspektionsseite | CONFIGURATIONS VERTICAL VERSION (front view inspection side)



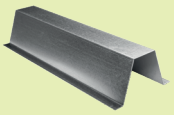
Leggenda | Legend
1 = **Außenluft** | fresh air
2 = **Zuluft** | supply
3 = **Rückluft** | return
4 = **Abluft** | exhaust air

PREISE | PRICES

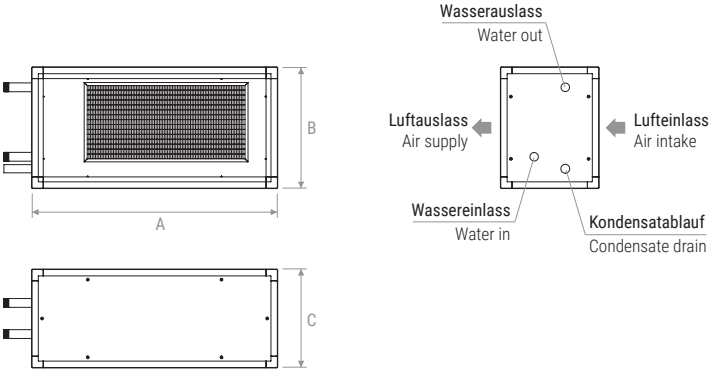
Modell | Model
BRUCEC700
BRUCEC1000
BRUCEC2000
BRUCEC3500
BRUCEC4500
BRUCEC6000

Version für den Außenbereich BRUCECOE und BRUCECVE Preise auf Anfrage
Outdoor version BRUCECOE and BRUCECVE prices on request

ZUBEHÖRE | ACCESSORIES

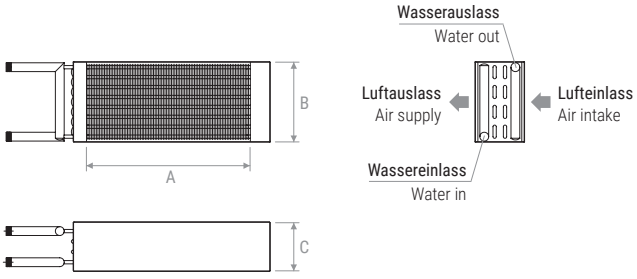
Modell | Model	Descrizione | Description	
REP		**Geschwindigkeitsregler** | Speed control **Empfohlen werden 2 Geschwindigkeitsregler pro Einheit** Racommended 2 speed controls for unit
SMFBRUCEC0700 **SMFBRUCEC1000** **SMFBRUCEC2000** **SMFBRUCEC3545**		**Halterungs-Kit für Deckenmontage** | Kit brackets fot ceiling mounting
MSPBRUCEC0700 **MSPBRUCEC1000** **MSPBRUCEC2000** **MSPBRUCEC3545**		**Satz Auflagepunkte für vertikale Installation** Kit support points for vertical installation

NACHBEHANDLUNGSGRUPPE SOMMER | SUMMER COOLING GROUP



Lufteinlass: 29,5°C - 65% R.F. / Wassereinlass: 7°C / Wasserauslass: 12°C Air inlet: 29,5°C - 65% U.R. / Water in: 7°C / Water out: 12°C								Abmessungen Dimensions		
Modell | Model	Temperatur Abluft Exit air temperature	R. F. Abluft Exit air relative humidity	Leistung Capacity	Wasser-durchfluss Water flow	Druckverlust luftseitig Air pressure drop	Druckverlust wasserseitig Pressure drop water side	Durchmesser der Anschlüsse Diameter water connections	Grup-penbasis Base group	Grup-penhöhe Height group	Dicke gruppo Thickness group
	°C	%	Kw	mc/h	pa	kpa	Zoll | inches	A mm	B mm	C mm
BAFREC1000*	16	96	9,21	1,6	73	12,3	3/4	750	370	300
BAFREC2000	16	93	18,9	3,2	68	26,6	3/4	1100	430	300
BAFREC3500	16	93	33,1	5,7	62	18,9	1	1400	610	300
BAFREC4500	17,2	90	42,5	7,3	83	28,3	1	1600	610	300
BAFREC6000	16,8	96	56,6	9,7	71	22	1 1/4	1850	670	300

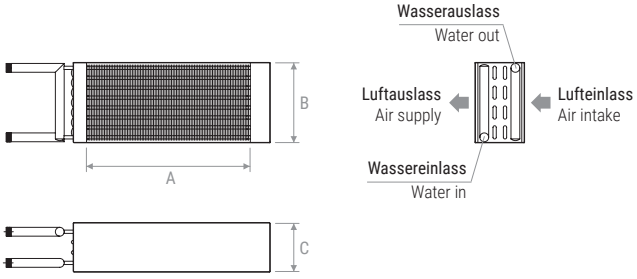
HOCHTEMPERATUR-NACHHEIZBATTERIE | POST- HEATING HIGH TEMPERATURE COIL



Lufteinlass: 8°C / Wassereinlass: 70°C / Wasserauslass: 60°C Air inlet: 8°C / Water in: 70°C / Water out: 60°C							Abmessungen Dimensions		
Modell | Model	Temperatur Abluft Exit air temperature	Leistung Capacity	Wasserdur-chfluss Water flow	Perdita carico lato aria Air pressure drop	Druckverlust wasserseitig Pressure drop water side	Durchmesser Anschlüsse Diameter water connections	Basis Luft-durchlass Base air passage	Höhe Luftdur-chlass Height air passage	Dicke Thickness air passage
	°C	Kw	mc/h	pa	kpa	Zoll | inches	A mm	B mm	C mm
BRATREC1000*	25	5,92	0,5	24	4,3	1/2	400	240	90
BRATREC2000	25	11,8	1	26	23,6	1/2	600	300	90
BRATREC3500	25	20,7	1,8	20	16,7	3/4	800	480	100
BRATREC4500	25	26,6	2,3	27	8	1	1000	480	120
BRATREC6000	29,8	45,9	4	23	20,8	1	1550	540	110

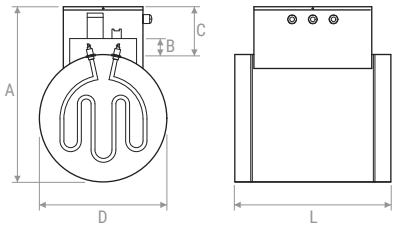
*** Geeignet für BRUCEC1000 e BRUCEC700** | Suitable fot BRUCEC1000 and BRUCEC700

NIEDRIGTEMPERATUR-NACHHEIZBATTERIE | POST-HEATING LOW TEMPERATURE COIL



Lufteinlass: 8°C / Wassereinlass: 45°C / Wasserauslass: 40°C Air inlet: 8°C / Water in: 45°C / Water out: 40°C						Abmessungen | Dimensions			
Modell | Model	Temperatur Abluft Exit air temperature	Leistung Capacity	Wasserdurchfluss Water flow	Lastverlust luftseitig Air pressure drop	Druckverlust wasserseitig Pressure drop water side	Durchmesser Anschlüsse Diameter water connection	Base passaggio aria Base air passage	Höhe Luftdurchlass Height air passage	Dicke Thickness air passage
	°C	Kw	mc/h	pa	kpa	Zoll | inches	A mm	B mm	C mm
BRBTREC1000*	30	7,67	1,3	34	7,9	3/4	500	240	150
BRBTREC2000	30	15,3	2,7	31	12,6	3/4	850	300	150
BRBTREC3500	30	26,8	4,7	28	15,1	1	1000	480	160
BRBTREC4500	30	34,4	6	37	10	1½	1300	480	170
BRBTREC6000	30	46,27	8	38	19,1	1¼	1550	540	170

DREIPHASIGE ELEKTROBATTERIE | ELECTRICAL COIL 400 VOLT

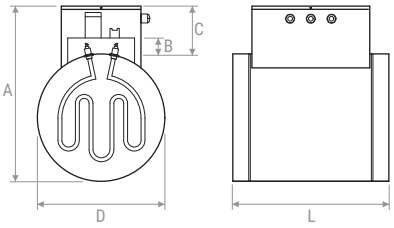


Aria ingresso: 8°C / Alimentazione: 400 Volt - 50 Hz Air inlet: 8°C / Electrical data: 400 Volt - 50 Hz				Dimensioni | Dimensions				
Modello | Model	Temperatura aria uscita Exit air temperature	Potenzialità Capacity	Stadi Levels	Ø D Diametro Diameter	A	B	C	L
	°C	Kw	NR.	mm	mm	mm	mm	mm
BETREC1000BCTR	20	4,5	3	250	400	50	150	490
BETREC1500BCTR	20	6,6	3	355	505	50	150	490
BETREC2500BCTR	20	10,5	3	355	505	50	150	490
BETREC3500BCTR	20	15	3	400	550	50	150	490
BETREC6000BCTR	20	25	3	400	560	50	160	850

Dem Regelsystem CBTR zugeordnete Register | Batteries dedicated to CBTR system

* Geeignet für BRUCEC1000 e BRUCEC700 | Suitable fot BRUCEC1000 and BRUCEC700

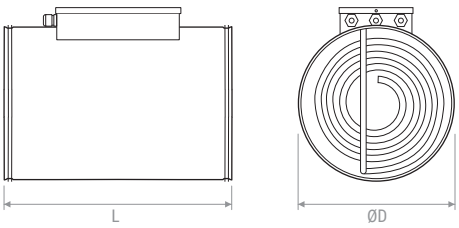
EINPHASIGE ELEKTROBATTERIE | ELECTRICAL COIL 230 VOLT



Lufteinlass: 8°C / Stromversorgung: 230 Volt - 50 Hz Air inlet: 8°C / Electrical data: 400 Volt - 50 Hz				Abmessungen Dimensions				
Modell | Model	Temperatur Abluft Exit air temperature	Leistung Capacity	Stadien Levels	Ø D Durchmesser Diameter	A	B	C	L
	°C	Kw	NR.	mm	mm	mm	mm	mm
BEMREC1000BCTR	20	4,5	3	250	400	50	150	490
BEMREC1500BCTR	20	6,6	3	355	505	50	150	490
BEMREC2500BCTR	20	10,5	3	355	505	50	150	490
BEMREC3500BCTR	20	15	3	400	550	50	150	490
BEMREC6000BCTR	20	25	3	400	560	50	160	850

Dem Regelsystem CBTR zugeordnete Register | Batteries dedicated to CBTR system

SELBSTREGELNDE DREIPHASIGE ELEKTROBATTERIE | ELECTRICAL COIL 400 VOLT SELF-REGULATING

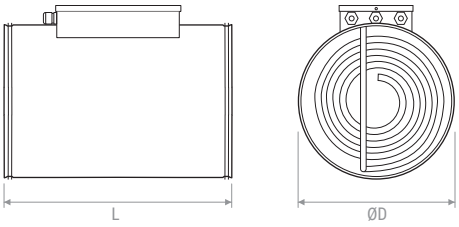


Lufteinlass: 8°C / Stromversorgung: 400 Volt - 50 Hz Air inlet: 8°C / Electrical data: 400 Volt - 50 Hz	Abmessungen | Dimensions		
Modell | Model	Leistung Capacity	Ø D Durchmesser Diameter	L Länge Lenght
	Kw	mm	mm
BETREC025006000AR	6	250	370
BETREC035509000AR	9	355	373
BETREC035512000AR	12	355	373
BETREC035515000AR	15	355	373
BETREC035518000AR	18	355	373
BETREC040024000AR	24	400	630

Nur für den Betrieb als Vorheizbatterien geeignet | Suitable only for pre-heating battery operating

***** Geeignet für BRUCEC1000 e BRUCEC700 | Suitable fot BRUCEC1000 and BRUCEC700

EINPHASIGE ELEKTROBATTERIE AUTOREGOLANTE | ELECTRICAL COIL 230 VOLT SELF-REGULATING



Lufteinlass: 8°C / Stromversorgung: 230 Volt - 50 Hz Air inlet: 8°C / Electrical data: 230 Volt - 50 Hz		Abmessungen | Dimensions	
Modell | Model	Leistung Capacity	Ø D Durchmesser Diameter	L Länge Lenght
	Kw	mm	mm
BEMREC025004200AR	4,2	250	370
BEMREC025006000AR	6	250	370

Nur für den Betrieb als Vorheizbatterien geeignet | Suitable only for pre-heating battery operating

HOCHEFFIZIENTE FILTER | HIGH EFFICIENCY FILTERS

Modell | Model	Effizienz | Efficiency	
GFTBRUC0700	F7 ISO e PM1 > 65 %	Geeignet für | suitable for **BRUCEC700**
GFTBRUC1000	F7 ISO e PM1 > 65 %	Geeignet für | suitable for **BRUCEC1000**
GFTBRUC1500	F7 ISO e PM1 > 65 %	Geeignet für | suitable for **BRUCEC2000**
GFTBRUC2500	F7 ISO e PM1 > 65 %	Geeignet für| suitable for **BRUCEC3500**
GFTBRUC3500	F7 ISO e PM1 > 65 %	Geeignet für | suitable for **BRUCEC4500 - BRUCEC6000**

Kann anstelle der serienmäßigen G4-Filter in die Einheit eingebaut werden. Preis pro Stück | Installable inside the unit instead of G4 series filters. Price for pieces
Geeignet für Innenausführungen und für BRUCECVE | Suitable for indoor version and for BRUCECVE

Modell | Model	Effizienz | Efficiency	
GFTBRUCOE0700	F7 ISO e PM1 > 65 %	Geeignet für | suitable for **BRUCECOE700**
GFTBRUCOE1000	F7 ISO e PM1 > 65 %	Geeignet für | suitable for **BRUCECOE1000**
GFTBRUCOE1500	F7 ISO e PM1 > 65 %	Geeignet für | suitable for **BRUCECOE2000**
GFTBRUCOE2500	F7 ISO e PM1 > 65 %	Geeignet für | suitable for **BRUCECOE3500**
GFTBRUCOE3500	F7 ISO e PM1 > 65 %	Geeignet für | suitable for **BRUCECOE4500 - BRUCEC6000**

Kann anstelle der serienmäßigen G4-Filter in die Einheit eingebaut werden. Preis pro Stück | Installable inside the unit instead of G4 series filters. Price for pieces
Geeignet für BRUCECOE | Suitable for BRUCECOE

FILTER-SET G4 | G4 SET FILTER

Modello | Model	Efficienza | Efficiency
FABRUCEC0700	G4 ISO COARSE > 65 %
FABRUCEC1000	G4 ISO COARSE > 65 %
FABRUCEC2000	G4 ISO COARSE > 65 %
FABRUCEC3500	G4 ISO COARSE > 65 %
FABRUCEC4500*	G4 ISO COARSE > 65 %

* Auch geeignet für BRUCECVE6000 | Suitable also to BRUCECVE6000
Preis pro Set mit 2 Filtern | Price for set of 2 filters
Geeignet für Innenausführungen und für BRUCECVE
Suitable for indoor version and for BRUCECVE

Modello | Model	Efficienza | Efficiency
FABRUCECOE0700	G4 ISO COARSE > 65 %
FABRUCECOE1000	G4 ISO COARSE > 65 %
FABRUCECOE2000	G4 ISO COARSE > 65 %
FABRUCECOE3500	G4 ISO COARSE > 65 %
FABRUCECOE4500*	G4 ISO COARSE > 65 %

* Auch geeignet für BRUCECOE6000 | Suitable also to BRUCECOE6000
Preis pro Set mit 2 Filtern | Price for set of 2 filters
Geeignet für BRUCECOE | Suitable for BRUCECOE

REGELSYSTEM | CONTROL SYSTEM

BCTR

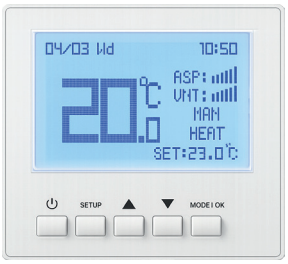
Integriertes System zur Regelung und Steuerung der Wärmerückgewinnungsgeräte.
Wesentliche Komponenten:
- Interne Fühler zur Erfassung der Temperatur in den verschiedenen Bereichen des Geräts.
- Differenzdruckschalter zur Beurteilung des Verschmutzungsgrads der Filter.
- Platine (PCB) zur Steuerung aller vorgesehenen Regelfunktionen.
- Interne Fühler zur Erfassung von CO_2 und relativer Luftfeuchtigkeit (sofern vorgesehen).
- Motorventil zur Steuerung des Wasserregisters (sofern vorgesehen).
- Kanalfühler zur Steuerung von Nachbehandlungssystemen (sofern vorgesehen).
- Bedieneinheit zur Einstellung aller Funktionen.

Alle Komponenten sind am Gerät installiert und werden vor der Auslieferung des Geräts werkseitig in allen vorgesehenen Funktionen getestet.

Integrated system for the regulation and control of heat recovery units. Essential components:
- Internal probes for temperature readings in the different zones of the unit.
- Differential pressure switches for filter clogging assessment.
- PCB for controlling all required control functions.
- Internal probes for CO_2 and relative humidity detection (where applicable).
- Motorized valve for hydronic coil management (where applicable).
- Duct probe for post-treatment system control (where applicable).
- User command for setting all functions.

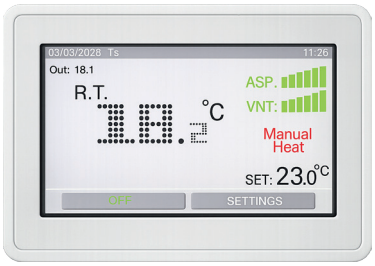
All components are installed on the unit and factory-tested for all required functions before unit delivery.

BCTRCOMSTD



CStandard-Bedieneinheit
Standard user command

BCTRCOMTC



Erweiterte Bedieneinheit
Advanced user command

PCB



Elektronische Steuerung, im Gerät installiert
Electronic control unit installed on board the unit

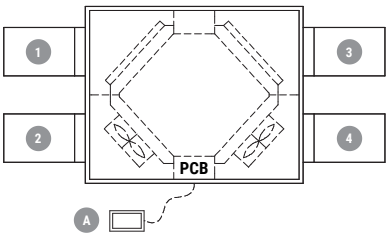
REGELSYSTEM (Regelfunktionen) | CONTROL SYSTEM (control function)

	BCTR1	BCTR2	BCTR3	BCTR4	BCTR5	BCTR6	BCTR7	BCTR8	BCTR9
Automatische Steuerung des Wärmetauscher-Bypasses Automatic heat exchanger by-pass management	●	●	●	●	●	●	●	●	●
Überwachung verschmutzter Filter mit Differenzdruckschaltern Dirty filter monitoring with differential pressure switches	●	●	●	●	●	●	●	●	●
Drehzahlregelung der Ventilatoren Fan speed control	●	●	●	●	●	●	●	●	●
Eingang Brandschutz-STOPP per Fernsteuerung Remote fire STOP unit input	●	●	●	●	●	●	●	●	●
Eingang EIN/AUS des Geräts per Fernsteuerung Remote unit ON / OFF input	●	●	●	●	●	●	●	●	●
Tages-/Wochenprogrammierung Daily/weekly programming timer	●	●	●	●	●	●	●	●	●
MODBUS-RS485-Kommunikation MODBUS RS485 communication	●	●	●	●	●	●	●	●	●
Ausgang allgemeine Gerätestörung Generic unit failure output		●	●	●	●			●	●
Ausgang Betriebszustand EIN/AUS des Geräts Unit ON / OFF status output		●	●	●	●			●	●
Ausgang Sommer/Winter Summer / winter status output			●	●	●			●	●
Regelung Wasserregister (inkl. Motorventil) Water coil control (motorized valve included)		●				●	●		
Regelung Elektroregister Electric battery control			●					●	●
Drehzahlregelung der Ventilatoren über im Gerät installierten CO_2-Fühler (inbegriffen) Fan speed control from CO_2 probe (included) installed on the unit				●		●		●	
Drehzahlregelung der Ventilatoren über Feuchtefühler (inbegriffen) Fan speed control from humidity probe (included)					●		●		●

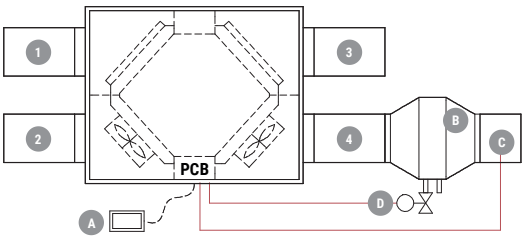
PROFESSIONAL

REGELSYSTEM | CONTROL SYSTEM

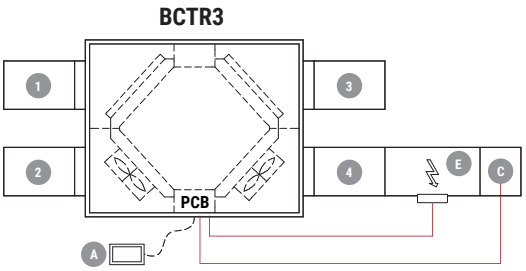
BCTR1



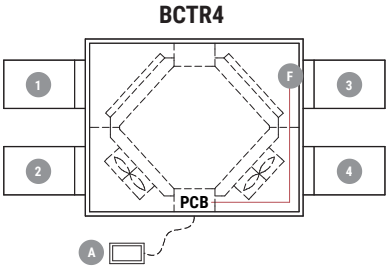
BCTR2



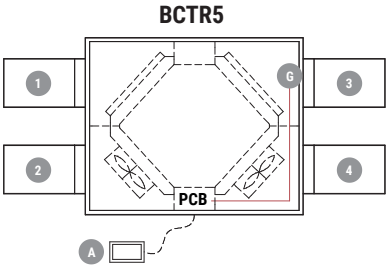
BCTR3



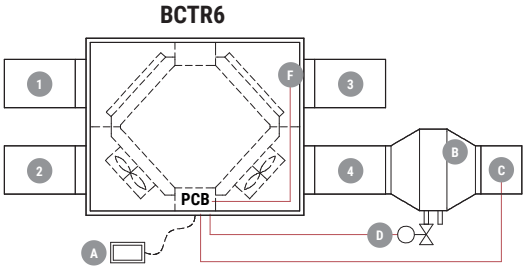
BCTR4



BCTR5



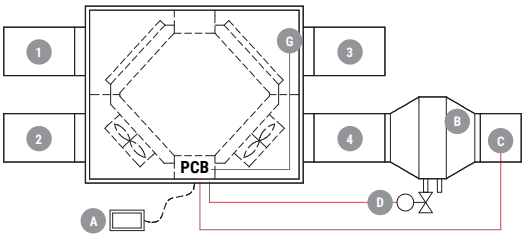
BCTR6



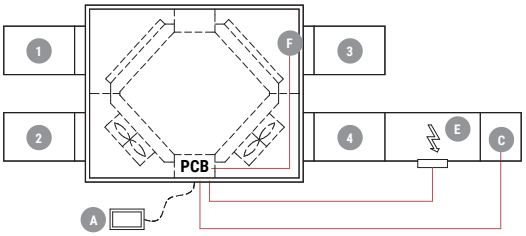
1 **Außenluft** | Fresh air
2 **Fortluft** | Exhaust
3 **Abluft** | Return
4 **Zuluft** | Supply

A **Bedieneinheit** | User command
B **Wasserregister** | Water coil
C **Temperaturfühler** | Temperature probe
D **Motorventil** | motorized valve
E **Elektroregister** | Electric battery
F **CO_2-Fühler** | CO_2 probe
G **Fühler relative Luftfeuchtigkeit** | Relative humidity probe

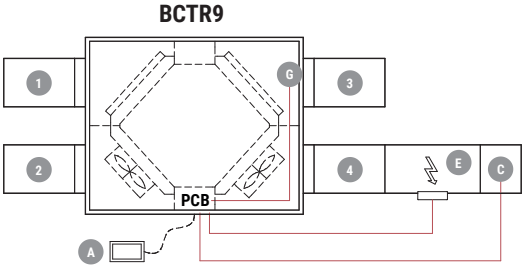
BCTR7



BCTR8



BCTR9



1 **Außenluft** | Fresh air
2 **Fortluft** | Exhaust
3 **Abluft** | Return
4 **Zuluft** | Supply

A **Bedieneinheit** | User command
B **Wasserregister** | Water coil
C **Temperaturfühler** | Temperature probe
D **Motorventil** | motorized valve
E **Elektroregister** | Electric battery
F **CO_2-Fühler** | CO_2 probe
G **Fühler relative Luftfeuchtigkeit** | Relative humidity probe

PREZZI | PRICES

Modell | Model
BCTR1STD
BCTR2STD
BCTR3STD
BCTR4STD
BCTR5STD
BCTR6STD
BCTR7STD
BCTR8STD
BCTR9STD

Preise mit Bedieneinheit | Prices with command **BCTRCOMSTD**

Modell | Model
BCTR1TC
BCTR2TC
BCTR3TC
BCTR4TC
BCTR5TC
BCTR6TC
BCTR7TC
BCTR8TC
BCTR9TC

Preise mit Bedieneinheit | Prices with command **BCTRCOMTC**