BOSCH
Invented for life

Combined Heat and Power

CHP CE 50-3 NA (80/40)

Technical Data

	Unit	Performance data Outlet / Inlet 80 °C / 40 °C
CHP Outputs		
Electrical output at cos(phi)=1	kWel	50
Thermal output effective	kWth (± 7%)	89
Gas consumption DIN ISO 3046-1	kW (± 5%)	146
Modulation Range	%	50% - 100%
Efficiency at mains parallel operation		
Electrical efficiency effective	%	34,2%
Thermal efficiency effective	%	61,0%
Overall efficiency effective	%	95,2%
Power to heat ratio (AGFW FW308)	kWel / kWth	56,2%
Noise		
Primary Silencer	dB(A) in 1m	70,0
Secondary Silencer	dB(A) in 1m	46,0
Engine		
Engine manufacturer	-	MAN
Model	-	E0834 E302
Cylinder arrangement	-	Reihe
Number of cylinders	-	4
Dimension and Weight		
Length CHP	mm	2700
Width CHP	mm	960
Heigth CHP	mm	1655
Operating weight max. features ca	kg	2175

Due to our ongoing commitment to product improvement these datasheets are subject to change without notice.

Please note: All noise measurements are stated as Sound Pressure Levels (SPL) at 1m. Detailed noise report available on request.

Bosch KWK Systeme GmbH
Justus-Kilian-Straße 29-33
35457 Lollar

Our BIM files can be downloaded from: https://www.bosch-industrial.com/cad-bim-data

BOSCH
Invented for life

Combined Heat and Power

CHP CE 50-3 NA (80/60)

Technical Data

	Unit	Performance data Outlet / Inlet 80 °C / 60 °C
CHP Outputs		
Electrical output at cos(phi)=1	kWel	50
Thermal output effective	kWth (± 7%)	82
Gas consumption DIN ISO 3046-1	kW (± 5%)	146
Modulation Range	%	50% - 100%
Efficiency at mains parallel operation		
Electrical efficiency effective	%	34,2%
Thermal efficiency effective	%	55,8%
Overall efficiency effective	%	90,0%
Power to heat ratio (AGFW FW308)	kWel / kWth	61,3%
Noise		
Primary Silencer	dB(A) in 1m	70,0
Secondary Silencer	dB(A) in 1m	46,0
Engine		
Engine manufacturer	-	MAN
Model	-	E0834 E302
Cylinder arrangement	-	Reihe
Number of cylinders	-	4
Dimension and Weight		
Length CHP	mm	2700
Width CHP	mm	960
Heigth CHP	mm	1655
Operating weight max. features ca	kg	2175

Due to our ongoing commitment to product improvement these datasheets are subject to change without notice.

Please note: All noise measurements are stated as Sound Pressure Levels (SPL) at 1m. Detailed noise report available on request.

Bosch KWK Systeme GmbH
Justus-Kilian-Straße 29-33
35457 Lollar

Our BIM files can be downloaded from: http://www.bosch-industrial.co.uk/downloads/bosch-bimstore.html

BOSCH
Invented for life

Combined Heat and Power

CHP CE 50-3 NA (90/70)

Technical Data

	Unit	Performance data Outlet / Inlet 90 °C / 70 °C
CHP Outputs		
Electrical output at cos(phi)=1	kWel	50
Thermal output effective	kWth (± 7%)	79
Gas consumption DIN ISO 3046-1	kW (± 5%)	146
Modulation Range	%	50% - 100%
Efficiency at mains parallel operation		
Electrical efficiency effective	%	34,2%
Thermal efficiency effective	%	54,1%
Overall efficiency effective	%	88,3%
Power to heat ratio (AGFW FW308)	kWel / kWth	63,3%
Noise		
Primary Silencer	dB(A) in 1m	70,0
Secondary Silencer	dB(A) in 1m	46,0
Engine		
Engine manufacturer	-	MAN
Model	-	E0834 E302
Cylinder arrangement	-	Reihe
Number of cylinders	-	4
Dimension and Weight		
Length CHP	mm	2700
Width CHP	mm	960
Heigth CHP	mm	1655
Operating weight max. features ca	kg	2175

Due to our ongoing commitment to product improvement these datasheets are subject to change without notice.

Please note: All noise measurements are stated as Sound Pressure Levels (SPL) at 1m. Detailed noise report available on request.

Bosch KWK Systeme GmbH
Justus-Kilian-Straße 29-33
35457 Lollar

Our BIM files can be downloaded from: http://www.bosch-industrial.co.uk/downloads/bosch-bimstore.html

BOSCH
Invented for life

Combined Heat and Power

CHP CE 50-3 NA (93/80)

Technical Data

	Unit	Performance data Outlet / Inlet 93 °C / 80 °C
CHP Outputs		
Electrical output at cos(phi)=1	kWel	50
Thermal output effective	kWth (± 7%)	78
Gas consumption DIN ISO 3046-1	kW (± 5%)	148
Modulation Range	%	50% - 100%
Efficiency at mains parallel operation		
Electrical efficiency effective	%	33,8%
Thermal efficiency effective	%	52,4%
Overall efficiency effective	%	86,2%
Power to heat ratio (AGFW FW308)	kWel / kWth	64,5%
Noise		
Primary Silencer	dB(A) in 1m	70,0
Secondary Silencer	dB(A) in 1m	46,0
Engine		
Engine manufacturer	-	MAN
Model	-	E0834 E302
Cylinder arrangement	-	Reihe
Number of cylinders	-	4
Dimension and Weight		
Length CHP	mm	2700
Width CHP	mm	960
Heigth CHP	mm	1655
Operating weight max. features ca	kg	2175

Due to our ongoing commitment to product improvement these datasheets are subject to change without notice.

Please note: All noise measurements are stated as Sound Pressure Levels (SPL) at 1m. Detailed noise report available on request.

Bosch KWK Systeme GmbH
Justus-Kilian-Straße 29-33
35457 Lollar

Our BIM files can be downloaded from: http://www.bosch-industrial.co.uk/downloads/bosch-bimstore.html