

TUNE-AHU-SE

Rectangular Shut Off Damper

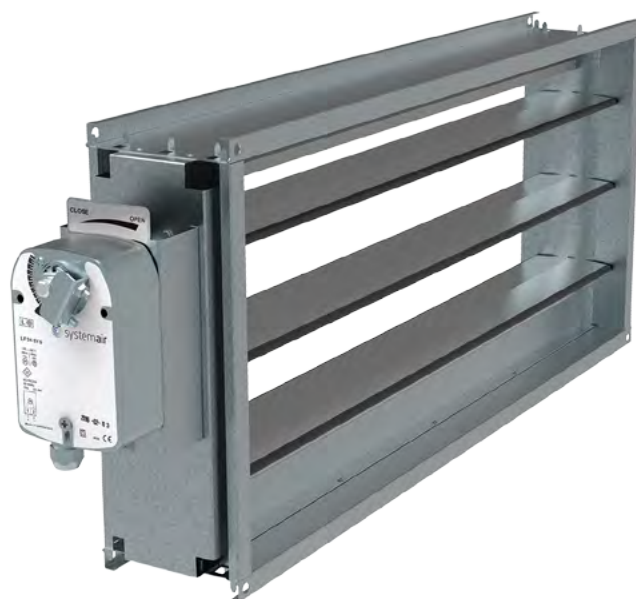


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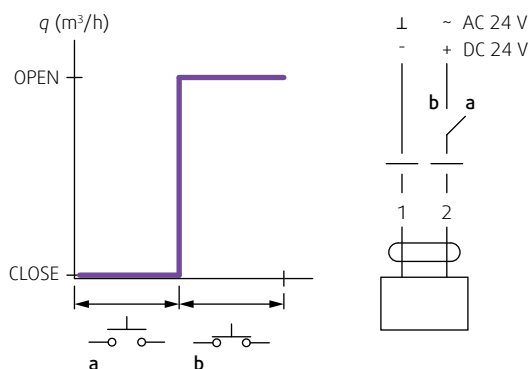
Description

The TUNE-AHU-SE, rectangular multi - blade dampers are mainly intended as a part of air handling units and fan systems to cover the air flow tuning and tight shut-off functionalities. The dampers can be used in indoor and outdoor climate conditions installed on the body of a fan or in the rectangular duct. They are equipped by electric actuator with spring return to closed position in case of electric power interruption. Manual operation/adjustment is also possible. They can operate in both directions of air flow. The air tightness of the dampers is classified as C4 according to the standard EN 1751 in pressure range up to 1000 Pa which is the maximum recommended duct pressure for this product. The operation temperature range is -20°C ... 100°C in duct, 50°C on actuator.

Design

TUNE-AHU-SE are manufactured with galvanized steel flanged casing. The opposed action blades from extruded aluminium profile are equipped by rubber gasket eliminating leakage in closed position. The blade shafts are sitting in self-lubricating polymeric bearings. The connection to the ductwork is secured by 20 mm wide flanges.

Controls/Wiring



Power supply: AC 24 V/50 - 60 Hz or DC 24 V

Power consumption: 5 W (DC), 6 VA (AC)

Mechanical protection: IP 54

Dimensions

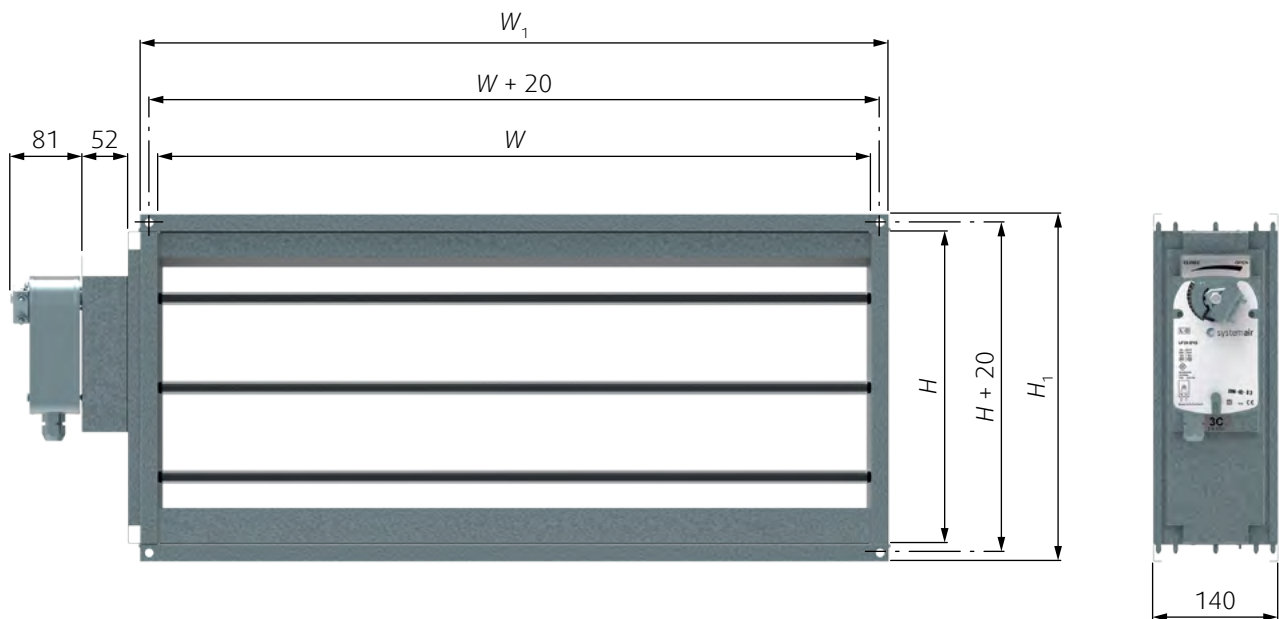


Fig. 1: Dimensions of the TUNE-AHU-SE

Tab. 1: Dimensions of the TUNE-AHU-SE

Name	$W_1 \times H_1$	$W \times H$	L	m	Belimo Actuator
	(mm)			(kg)	
TUNE-AHU-SE001-500x250-TF24	540 × 290	500 × 250	140	4,8	TF24
TUNE-AHU-SE002-500x300-TF24	540 × 340	500 × 300	140	5,3	TF24
TUNE-AHU-SE003-600x300-TF24	640 × 340	600 × 300	140	6,5	TF24
TUNE-AHU-SE004-600x400-TF24	640 × 440	600 × 400	140	7,6	TF24
TUNE-AHU-SE005-600x500-LF24	640 × 540	600 × 500	140	9	LF24
TUNE-AHU-SE006-700x300-TF24	740 × 340	700 × 300	140	8,5	TF24
TUNE-AHU-SE007-700x400-LF24	740 × 440	700 × 400	140	9,6	LF24
TUNE-AHU-SE008-800x350-LF24	840 × 390	800 × 350	140	10,2	LF24
TUNE-AHU-SE009-800x400-LF24	840 × 440	800 × 400	140	11,4	LF24
TUNE-AHU-SE010-1000x350-LF24	1040 × 390	1000 × 350	140	13,2	LF24
TUNE-AHU-SE011-400x200-TF24	440 × 240	400 × 200	140	4	TF24

Item Numbers

Name	Item No.
TUNE-AHU-SE001-500x250-TF24	79894
TUNE-AHU-SE002-500x300-TF24	79895
TUNE-AHU-SE003-600x300-TF24	79896
TUNE-AHU-SE004-600x400-TF24	79897
TUNE-AHU-SE005-600x500-LF24	79898
TUNE-AHU-SE006-700x300-TF24	79899
TUNE-AHU-SE007-700x400-LF24	79937
TUNE-AHU-SE008-800x350-LF24	79938
TUNE-AHU-SE009-800x400-LF24	79939
TUNE-AHU-SE010-1000x350-LF24	79940
TUNE-AHU-SE011-400x200-TF24	79941

Technical Parameters

Legend

p_s	(Pa)	Pressure drop
q_v	(m³/h) (l/s)	Air flow volume
L_{WA}	(dB)	A-weighted total discharged sound power level

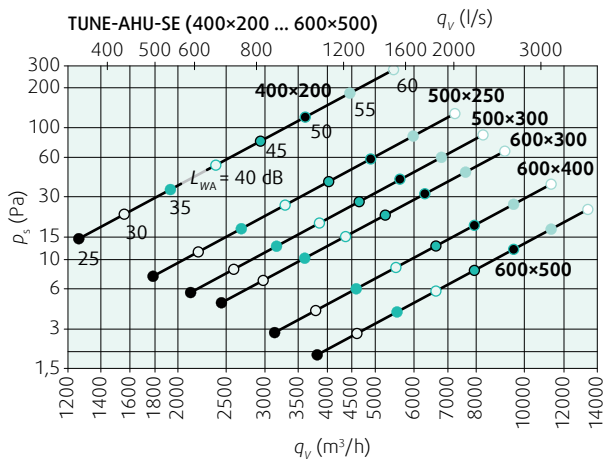


Diagram 1: Pressure drop & A-weighted total discharged sound power level depending on air flow volume; through open damper

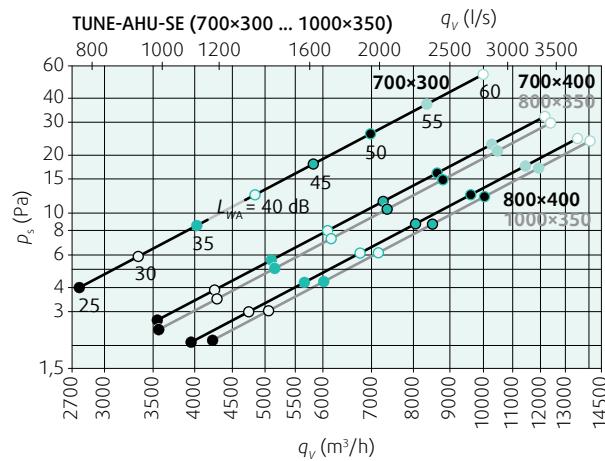


Diagram 2: Pressure drop & A-weighted total discharged sound power level depending on air flow volume; through open damper

Installation, Maintenance and Operation

TUNE-AHU-SE is mounted on AHU, FAN or in ductwork by a 20 mm flange connection. The damper cannot be installed carrying any mechanical loads from other structures. The damper can be installed in any spatial orientation.

Maintenance: maintenance-free.

Operating temperature range: -20°C ... 100°C in duct, 50°C on actuator.

Transport and Storage

Dry indoor conditions with temperature range: -40°C ... 80°C.

Humidity: 90 % RH, non condensing (EN60730-1)

Supplement

Any deviations from the technical specifications contained herein and the terms should be discussed with the manufacturer. We reserve the right to make any changes to the product without prior notice, provided that these changes do not affect the quality of the product and the required parameters. Current information on all products are available at www.systemair.com