

TUNE-S

Control Damper
Data Sheet



Table of Contents

Description	3
Design	3
Dimensions	4
Ordering Codes	6
Installation, Maintenance & Operation	7
Transport & Storage	7
Supplement	7



Good to know

Current information on all products is available at design.systemair.com



Description

Tune-S is a control and shut off damper for rectangular ducts. It is available in with blade tightness class C4, tested according to EN 1751. It is ideal for use as a control and shut-off damper where different parts of the system need to be airtight separated from each other. It can be used on air handling units as outer shut-off damper or with modulating actuator as control damper. The damper can be supplied in a manual or motorized version with position indicator. The maximum recommended duct pressure is 1000 Pa.

Design

TUNE-S units are made from sheet steel frame and Aluminium profile blades. The frame has 20 mm wide flanges or tight connection to the duct..

The aerofoil blades are from extruded aluminium. The blades are equipped by rubber gaskets eliminating leakage in closed position. The blade axe are sitting in self lubricating bearings which are connected together by a cog - rod combination to assure a smooth ratio and transition from blade to blade.

Dimensions

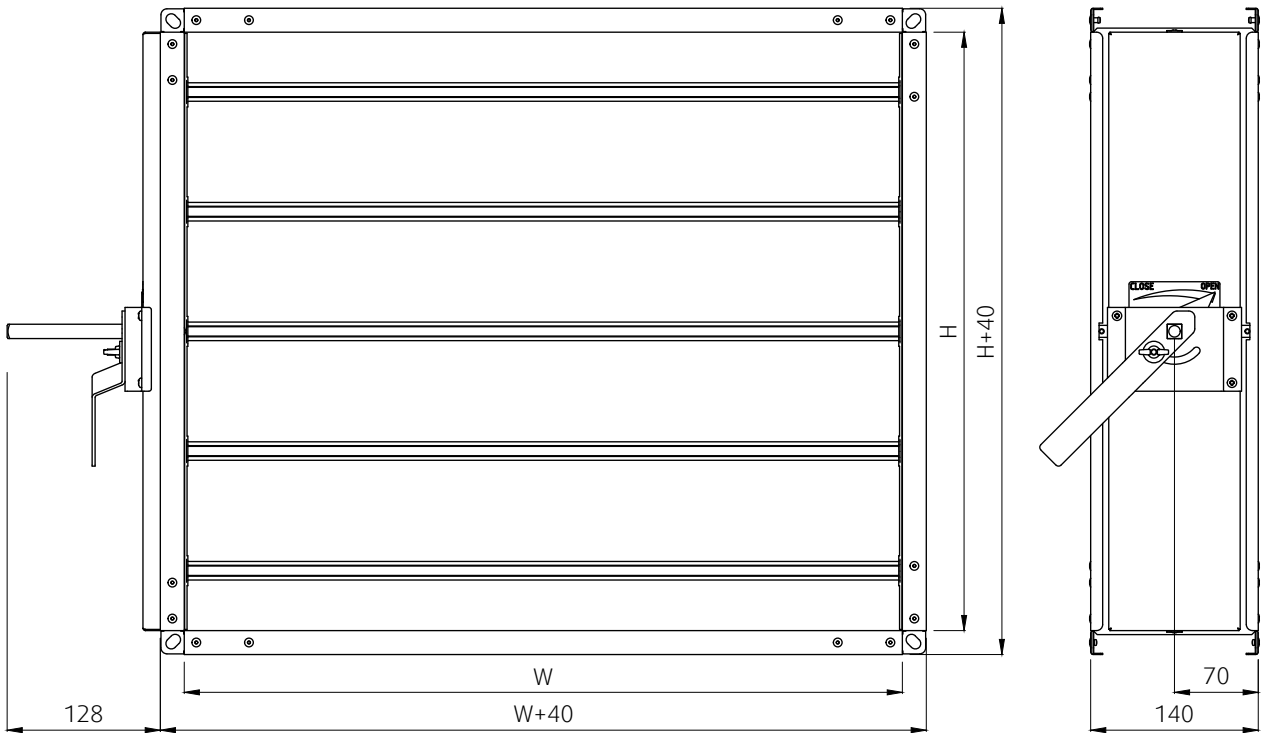


Fig. 1: Dimensions of TUNE-S with handle for manual adjustment

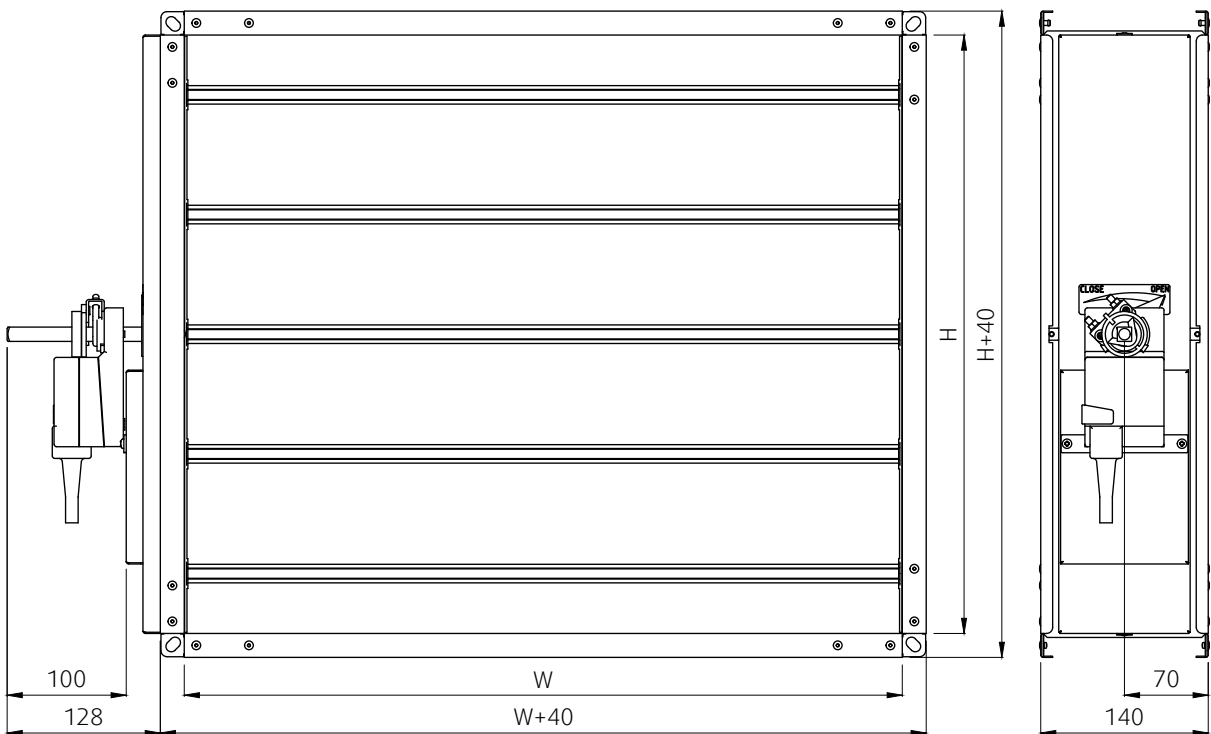


Fig. 2: Dimensions of TUNE-S with actuator

NOTE: For the type M0 the actuator is not included.

Tab. 1: Dimensions of TUNE-S

		W (mm)																					
		200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	
H (mm)	100	2,00	2,24	2,42	2,61	2,80	2,99	3,18	3,36	3,55													
	150	2,58	2,84	3,10	3,36	3,62	3,88	4,14	4,40	4,66	4,92												
	200	2,76	2,98	3,21	3,44	3,67	3,90	4,15	4,45	4,70	4,99	5,20	5,40	5,62	5,85	5,98							
	250		3,60	3,90	4,20	4,50	4,80	5,10	5,42	5,72	6,03	6,34	6,65	6,96	7,27	7,58	7,89						
	300			4,00	4,26	4,52	4,90	5,20	5,86	6,00	6,28	6,53	6,76	7,01	7,30	7,60	7,95	8,23	8,49	8,76			
	350			4,69	5,03	5,37	5,71	6,05	6,39	6,56	6,73	7,07	7,41	7,75	8,09	8,43	8,77	9,11	9,47	9,80	10,32		
	400					5,42	5,75	6,09	6,43	6,63	6,78	7,12	7,45	7,79	7,12	8,46	8,83	9,14	9,51	9,86	10,38	10,65	
	450						6,65	7,00	7,35	7,70	8,05	8,40	8,75	9,10	9,45	9,78	10,06	10,40	10,75	11,12	11,46	11,82	
	500							7,05	7,39	7,75	8,11	8,47	8,83	9,14	9,49	9,85	10,12	10,52	10,82	11,18	11,52	11,89	
	550								8,35	8,65	8,95	9,25	9,55	9,85	10,15	10,45	10,75	11,05	11,35	11,65	11,95	12,25	
	600									8,79	9,15	9,51	9,87	10,23	10,59	10,95	11,31	11,68	12,04	12,40	12,76	13,02	
	650										10,02	10,27	10,63	10,99	11,35	11,71	12,07	12,43	12,79	13,15	13,51	13,87	
	700											10,35	10,84	11,30	11,76	12,22	12,68	13,14	13,60	14,09	14,58	15,07	
	750												10,95	11,40	11,90	12,40	12,90	13,40	13,90	14,40	14,90	15,40	
	800													12,56	13,08	13,60	14,12	14,64	15,16	15,68	16,20	16,72	
	850														13,18	13,68	14,18	14,68	15,18	15,68	16,18	16,68	
900															13,83	14,40	14,97	15,54	16,11	16,68	17,15		
950																15,60	16,25	16,90	17,55	18,20	18,85		
1000																	16,40	17,06	17,72	18,38	19,04		

Legend

6,43 kg	Weight of the damper without actuator/Torque 5 Nm
9,54 kg	Weight of the damper without actuator/Torque 10 Nm

Ordering Codes

		TUNE-S-	-	
Size (mm)	W × H	200 ... 1200 × 100 ... 1000		
	Handle for manual adjustment		H	
	Preparation for actuator		M0	
	230 V actuator		M1	
	24 V actuator		M2	
	24 V, 0 V ... 10 V continuous actuator		M3	
	230 V spring actuator		M4	
	24 V spring actuator		M5	
Positioning type	24 V, 0 V ... 10 V continuous spring actuator		M6	

Example of Ordering Code

TUNE-S-600×200-M3

Control damper TUNE-S with 600 mm width and 200 mm height, actuator with 24 V power supply, continuous control signal DC 0 V ... 10 V.

Installation, Maintenance & Operation

Tune-S is mounted into the ductwork by a standard flange. The fixing bolts, nuts, clips and gaskets shall be delivered by the installation company. The damper cannot be installed carrying any mechanical loads from other structures.

Dry indoor conditions with an operation temperature range of -20°C to +70°C in the duct, -20 °C ... +50 °C on the actuator with relative humidity up to 95% non-condensing conditions.

Transport & Storage

Dry indoor conditions with a temperature range of -20°C to +50°C.

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 is available on [Systemair DESIGN](#).

