

Basics

Temperature Control Units	6
Temperature Control Unit Maintenance	50
Cooling	53
Control Engineering	58
Data Interfaces	69
Temperature Measurement in Practice	75
Pumps	85
Water as a Heat Transfer Fluid	94
Thermal Oil	99
System Cleaner for Heat-Transfer Installations Using Thermal Oil	103
Economical Temperature Control Requires Increased Efficiency	104
Plastics	109
The Use of Temperature Control Units in Plastic Injection Moulds	113
The Influence of Temperature Control on Continuous Processing Machines	118
The Use of Temperature Control Units in Diecasting Dies	125
Guidelines for the Layout of Temperature Control Channels in Diecasting Dies	131

Application Examples

Applications for Temperature Control Units and Refrigerating Machines	139
Temperature Control of a Transfer Mould	141
Temperature Control of Moulds for Producing High-End Plastics	143
Temperature Control of Compression Moulds	145
Temperature Control of Thermomixers	146
Diecasting of Motorcycle Components	148
Core Temperature Control in Diecasting	150
Sand Casting	151
Drop Forging of Vehicle Parts for Lorries	153
Honing of Cylinder Blocks for Internal Combustion Engines	155
Testing Stands for Internal Combustion Engines	157
High-Performance Milling Spindles and Automatic Grinding Machines	159
Use of a Temperature Control and Cooling Unit for the Production of Large Water Filters	160
Temperature Control of Rollers in the Paper Industry	162
Temperature Control Units for Chocolate Production	164
Roasting Grain Using Extruders	167

Appendices

Checklists	169
Conversion Tables	175
Properties of Selected Substances	178
Abbreviations for Plastics and Elastomers	190
Glossary	206
Wörterbuch	231
Dictionnaire	240
Authors' Contact Information	249
Regloplas Temperature Control Units Meet the Demands of All Applications	251
Index	255